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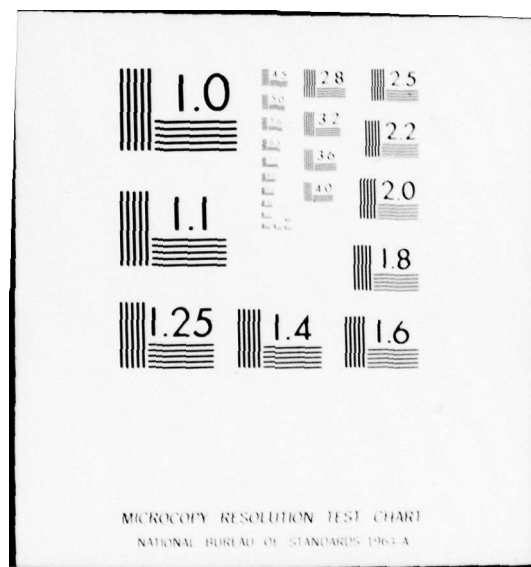
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6 Refuse-Collection Scheduling For Selected Locations.

Volume IV: Robins Air Force Base, Georgia

10 Harold J. Iuzzolino

14 CERF-EE-17-VOL-4

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**CIVIL AND ENVIRONMENTAL  
ENGINEERING DEVELOPMENT OFFICE**

(AIR FORCE SYSTEMS COMMAND)

TYNDALL AIR FORCE BASE  
FLORIDA 32403

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report presents maps and schedules produced by the Air Force Refuse-Collection Scheduling Program for residential refuse collection at Robins Air Force Base, Georgia. The data required for scheduling are discussed briefly. The computer-generated schedule reduced the number of trips from 27 to 23 and the total mileage from 146.1 to 124.3 miles.		

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## PREFACE

This report documents work performed during the period January 1976 through April 1977 by the University of New Mexico under contract F29601-76-C-0015 with DET 1 (CEEDO) HQ ADTC, Air Force Systems Command, Tyndall Air Force Base, Florida 32403. Capt. Robert F. Olfenbuttel managed the program.

This report has been reviewed by the Information Officer and is releasable to the National Technical Information Service (NTIS). At NTIS it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

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## SECTION I INTRODUCTION

### BACKGROUND

From 1973 through 1975, a study was conducted at the Civil Engineering Research Facility (CERF) to evaluate the usefulness of the IBM Vehicle Scheduling Program for scheduling refuse collection at Air Force bases. This study indicated that reductions in manpower and total mileage of up to 20 percent could be obtained in some cases. The large amount of human effort required to put the routes produced by the IBM program in a useable form led to the development of the CERF Refuse-Collection Scheduling Program (RCSP). This program produces a printed schedule and maps that can be used, without modification, by the driver of the collection vehicle or in reports.

### OBJECTIVE

The objective of this effort was to use RCSP to determine optimum refuse-collection schedules for four Air Force bases. These test bases provide enough variety in refuse-scheduling problems to allow a determination of the program's range of applicability and, ultimately, an evaluation of its potential use on all Air Force bases.

### SCOPE

This report presents the results obtained when RCSP was used to schedule refuse collection at Robins Air Force Base, Georgia. The data required for scheduling are described briefly. The original and new schedules are compared. Since the new schedule requires only 23 trips, while the original required 27, a procedure for verifying and implementing the new schedule is given. The original and computer-generated routes are presented on maps and as printed schedules.

## SECTION II

### DATA REQUIREMENTS

The data available for Robins Air Force Base included one map showing the housing areas and the locations of the landfill and garage. The 27 routes were marked on Xerox copies of the map. A computer list giving facility numbers and the number of families for each housing unit was furnished. In addition to these items, the following information was provided:

1. unloading time at the landfill is 5 minutes;
2. two vehicles of 16-cubic-yard capacity each servicing approximately 57 houses and one vehicle of 14-cubic-yard capacity servicing approximately 46 houses are used;
3. vehicle speed in the housing areas is approximately 5 miles per hour; and
4. the trailer park is collected twice a week.

To obtain computer-generated maps and a schedule for the original routes, information describing these routes was used as input to program PHASE4. The schedule and maps thus obtained are presented in Appendixes A and B. On the first page of material in Appendix A, the sections correspond to the final trips. The section numbers on that page can be found on the route summary on the second page, in the column marked SECTION(S). Thus, section 10 is serviced by trip 1 of route 6. The section numbers are useful to the person running RCSP but not to the vehicle drivers, so only the pages including and following the route summary would go to operational personnel.

In processing the original routes, it was found that in two cases a trip collected half of a street between two intersections. The streets involved are Cannon Road between Third Street and Vandenburg Boulevard, and Second Avenue between Warner Drive and Dover Drive. When the map was reduced to computer input, these streets were not divided. In the section listing at the beginning of Appendix A, the correction for these half streets has been added to the LOAD column.

The page of output proceeding the route summary in Appendix A indicates that 70 families are serviced by the trip to section 13. Section 13 is serviced by a 16-cubic-yard vehicle. The capacity of the vehicle is therefore taken as 70 households, rather than the 57 households indicated in the information provided by the base. Sections 1 through 9 are serviced by the 14-cubic-yard vehicle. The output shows a vehicle load of 53 households for section 4. Therefore, the capacity of the 14-cubic-yard vehicle was taken to be 53 households, rather than the 46 households indicated in the information provided by the base.

RCSP consists of four computer programs: the data-checking program (RCINPT), the section-assignment program (PHASE2), the route-traversing program (PHASE3), and the route-map- and schedule-generating program (PHASE4).

The RCINPT data consist of three records: street names, size of output maps, and description of the input map. The actual data cards are listed in Appendix C.

Data for PHASE2 consist of four cards: a title card, the vehicle-capacity card, two time-limits cards, and an output-map size card. These data cards are as follows:

ROBINS AFB. GA

	2 70.		1 53.			
1.		5.	4.	309		
0.	14.	20.	0.	14.	20.	10.

The required input data to PHASE3 consist of a title card and a card giving the node numbers assigned to the landfill and the garage. Thirty-two optional cards were added, each reassigning a street segment to another section. These data cards are listed in Appendix D. Segments 187, 188, 201, 202, 335, and 349 were reassigned to put isolated segments into nearby trips. Segments 114, 137, 143, 151, 215, 251, 252, 297, 318, and 319 were reassigned so that all segments of a street between two intersections would be serviced on the same trip. The remaining segments were reassigned to reduce loads to within the vehicle capacities. After PHASE2 was run, it was evident that the vehicle servicing section 16 would have enough remaining capacity to service



the trailer park a second time. If no trip had had the necessary excess capacity, segments would have been reassigned to make room in some trip other than the one already servicing the trailer park.

The three data records for PHASE4 are listed in Appendix E for the original routes and Appendix F for the RCSP routes. The first record consists of a title card, a card giving the unit of refuse measurement, two time-limits cards, and two vehicle-identification cards. The second record consists of cards specifying boundaries for the maps which are drawn by PHASE4. The third record consists of cards describing the paths in each of the routes. For the final routes this information normally is passed from program PHASE3 to PHASE4 on disk or tape, but since one route had to be changed to include an additional trip to the trailer park, the data for that trip were repunched and the modified deck was included as card input to program PHASE4.

SECTION III  
EVALUATION OF COMPUTER-GENERATED SCHEDULE

The original refuse-collection schedule for Robins Air Force Base required 27 trips to service all of the houses. The total mileage for the 27 trips, as estimated by PHASE4, is 146.1 miles. The computer-generated schedule requires 23 trips and a total distance of 124.3 miles, which represents a decrease of 15 percent in both mileage and number of trips. The computer-generated schedule is given in Appendix G, and the corresponding maps are presented in Appendix H.

#### SECTION IV IMPLEMENTATION REQUIREMENTS

RCSP assumes that any two collection vehicles of the same capacity could service the same number of households. Therefore, the two most important preliminary verifications are that 1) the maximum number of households serviced on one trip has been correctly determined and 2) the vehicle involved is almost always capable of completing its route without overfilling. For Robins Air Force Base, the heaviest collection trip by a 14-cubic-yard vehicle is labeled route 2, trip 2 in the original route summary in Appendix A. This trip services 53 households in the original section 4. The largest-capacity trip by a 16-cubic-yard vehicle is route 7, trip 2 in the original route summary and services 70 households in the original section 13. These two trips should be examined to verify that the number of households actually serviced is not less than the number used in the program. It should also be verified that these vehicles do not have a problem with overfilling. If none of the trips in the current schedule service the number of households indicated above, corrected route information should be sent to the Civil and Environmental Engineering Development Office so the capacities can be determined accurately and the program rerun. If the vehicles have no problems servicing the number of households shown above, then the new schedule in Appendix G and the maps in Appendix H should be suitable for implementation.

APPENDIX A

ORIGINAL ROUTE SCHEDULE

SECTION	TRIP	DISTANCE (MILES)	TIME (MINUTES)	HOUSEHOLDS	CAPACITY (HOUSEHOLDS)	LOAD
1	1	5.1	52.2	34	53.0	24.5
2	1	4.4	61.3	47	53.0	47.0
3	1	4.3	63.9	50	53.0	50.0
4	1	4.4	62.3	47	53.0	47.0
5	1	4.3	55.0	41	53.0	41.0
6	1	5.7	70.0	49	53.0	49.0
7	1	5.5	58.8	40	53.0	40.0
8	1	5.2	53.4	35	53.0	35.0
9	1	5.8	72.8	52	53.0	42.5
10	1	4.3	81.4	57	70.0	57.0
11	1	4.4	62.1	39	70.0	39.0
12	1	4.0	79.4	59	70.0	59.0
13	1	4.3	90.8	70	70.0	70.0
14	1	5.9	94.3	67	70.0	67.0
15	1	5.4	84.8	60	70.0	60.0
16	1	5.6	77.6	53	70.0	53.0
17	1	5.7	82.1	57	70.0	57.0
18	1	5.8	78.5	55	70.0	55.0
19	1	6.0	81.6	60	70.0	60.0
20	1	6.4	81.0	58	70.0	58.0
21	1	6.6	86.2	61	70.0	61.0
22	1	6.2	78.0	55	70.0	55.0
23	1	5.9	77.0	56	70.0	56.0
24	1	5.3	76.3	54	70.0	54.0
25	1	5.3	76.3	57	70.0	57.0
26	1	5.3	74.3	54	70.0	54.0
27	1	5.7	85.7	64	70.0	64.0



FINAL ROUTE SUMMARY ROBINSON AFB, GA (ORIGINAL ROUTES)

ROUTE	VEHICLE IDENTIFICATION	VEHICLE CAPACITY (HOUSEHOLDS)	SECTION(S) TRIP1 TRIP2	DISTANCE (MILES)	TIME (HR:MIN)	HOUSEHOLDS SERVICED	REFUSE QUANTITY (HOUSEHOLDS)
1	14 CU YD VEHICLE	53.0	1 2	9.7	2:04	81	71.5
2	14 CU YD VEHICLE	53.0	3 4	8.8	2:17	97	97.0
3	14 CU YD VEHICLE	53.0	5 6	10.2	2:16	90	90.0
4	14 CU YD VEHICLE	53.0	7 8	10.9	2:03	75	75.0
5	14 CU YD VEHICLE	53.0	9	5.9	1:19	52	42.5
6	16 CU YD VEHICLE	70.0	10 11	8.8	2:34	96	96.0
7	16 CU YD VEHICLE	70.0	12 13	8.5	3:01	129	129.0
8	16 CU YD VEHICLE	70.0	14 15	11.5	3:10	127	127.0
9	16 CU YD VEHICLE	70.0	16 17	11.5	2:51	110	110.0
10	16 CU YD VEHICLE	70.0	18 19	11.9	2:51	115	115.0
11	16 CU YD VEHICLE	70.0	20 21	13.2	2:58	119	119.0
12	16 CU YD VEHICLE	70.0	22 23	12.3	2:46	111	111.0
13	16 CU YD VEHICLE	70.0	24 25	11.7	2:43	111	111.0
14	16 CU YD VEHICLE	70.0	26 27	11.2	2:51	118	118.0
TOTALS				146.1	35:45	1431	1412.0

ROUTE 1	ROBINS AFB, GA (ORIGINAL ROUTES)	14 CU YD VEHICLE	SPEED (MPH)	TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
ACTION							
LEAVE GARAGE							
DRIVE ON	SECOND STREET	TO SECOND STREET	25	8:00	.1		
DRIVE ON	GEORGIA HWY.	TO GEORGIA HWY.	25	8:02	.0		
DRIVE ON	DUKE STREET	TO DUKE STREET	25	8:03	.3		
PICK UP ON	BOTH SIDES MOBILE HOME COURT ENTRANCE	TO MOBILE HOME COURT ENTRANCE	25	8:04	.4		
PICK UP ON	BOTH SIDES MOBILE HOME COURT ENTRANCE	TO MOBILE HOME COURT ENTRANCE	5	8:14	.1	9	11
PICK UP ON	BOTH SIDES MOBILE HOME COURT ENTRANCE	TO MOBILE HOME COURT ENTRANCE	5	8:18	.0	3	12
DRIVE ON	MOBILE HOME COURT ENTRANCE	TO MYRTLE ST.	5	8:19	.0	1	12
PICK UP ON	BOTH SIDES MOBILE HOME COURT ENTRANCE	TO MOBILE HOME COURT ENTRANCE	15	8:19	.0		
DRIVE ON	MOBILE HOME COURT ENTRANCE	TO MOBILE HOME COURT ENTRANCE	5	8:27	.1	6	17
DRIVE ON	DUKE STREET	TO DUKE STREET	15	8:27	.0		
DRIVE ON	MYRTLE ST.	TO MYRTLE ST.	25	8:27	.1		
PICK UP ON	BOTH SIDES ROBINS DRIVE	TO SECOND AVE.	25	8:29	.7		
PICK UP ON	BOTH SIDES ROBINS DRIVE	TO VANDENBURG BLVD	5	8:43	.2	12	17
DRIVE ON	THIRD ST	TO THIRD ST	5	8:47	.1	3	46
DRIVE ON	FIFTH STREET	TO CANNON ROAD	25	8:48	.2		
DRIVE ON	PAGE RD	TO PAGE RD	25	8:49	.3		
DRIVE ON	SECOND STREET	TO SECOND STREET	25	8:50	.6		
DRIVE ON	ROAD TO LAND FILL	TO ROAD TO LAND FILL	25	8:52	.7		
DRIVE ON	ROAD TO LAND FILL	TO LAND FILL	25	8:52	.1		
DRIVE ON	ROAD TO LAND FILL	TO LAND FILL	25	8:52	.1		
UNLOAD				8:52 TO 8:57			
LEAVE LAND FILL							
DRIVE ON	SECOND STREET	TO SECOND STREET	25	8:57	.1		
DRIVE ON	PAGE RD	TO PAGE RD	25	8:58	.7		
DRIVE ON	FIFTH STREET	TO FIFTH STREET	25	8:59	.6		
DRIVE ON	CANNON ROAD	TO CANNON ROAD	25	9:01	.3		
DRIVE ON	VANDENBURG BLVD	TO VANDENBURG BLVD	15	9:02	.2		
DRIVE ON	WHITEHEAD CIRCLE	TO WHITEHEAD CIRCLE	15	9:03	.2		
PICK UP ON	BOTH SIDES WHITEHEAD CIRCLE	TO	5	9:22	.1	18	33
PICK UP ON	BOTH SIDES WHITEHEAD CIRCLE	TO	5	9:35	.1	12	56
DRIVE ON	VANDENBURG BLVD	TO VANDENBURG BLVD	5	9:53	.1	17	88
DRIVE ON	CANNON ROAD	TO CANNON ROAD	15	9:54	.1		
DRIVE ON	FIFTH STREET	TO THIRD ST	15	9:54	.2		
DRIVE ON	PAGE RD	TO PAGE RD	25	9:55	.3		
DRIVE ON	SECOND STREET	TO SECOND STREET	25	9:56	.6		
DRIVE ON	ROAD TO LAND FILL	TO	25	9:58	.7		
DRIVE ON	ROAD TO LAND FILL	TO ROAD TO LAND FILL	25	9:58	.1		
DRIVE ON	ROAD TO LAND FILL	TO LAND FILL	25	9:58	.1		
UNLOAD				9:58 TO 10:03			
DRIVE ON	ROAD TO LAND FILL	TO	25	10:04	.1		
DRIVE ON	ROAD TO LAND FILL	TO GARAGE	25	10:04	.1		

ROUTE 2		ROBINS AFB, GA (ORIGINAL ROUTES)		14 CU YD VEHICLE					
ACTION				SPEED (MPH)	TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)	
LEAVE GARAGE									
DRIVE ON	SECOND STREET			25	8:00				
DRIVE ON	PAGE RD			25	8:02	.1			
DRIVE ON	FIFTH STREET			25	8:04	.7			
DRIVE ON	CANNON ROAD			25	8:04	.6			
DRIVE ON	VANDENBURG BLVD			15	8:05	.3			
PICK UP ON	BOTH SIDES			15	8:05	.2			
PICK UP ON	EOTH SIDES			15	8:18	.0			
PICK UP ON	NORSTAD CIRCLE			5	8:27	.1	12	22	
PICK UP ON	NORSTAD CIRCLE			5	8:27	.1	8	37	
DRIVE ON	VANDENBURG BLVD			5	8:49	.1	21	77	
DRIVE ON	CANNON ROAD			5	8:59	.0	9	94	
DRIVE ON	FIFTH STREET			15	9:00	.1			
DRIVE ON	PAGE RD			25	9:00	.2			
DRIVE ON	SECOND STREET			25	9:02	.3			
DRIVE ON	ROAD TO LAND FILL			25	9:03	.6			
DRIVE ON	ROAD TO LAND FILL			25	9:04	.7			
DRIVE ON	ROAD TO LAND FILL			25	9:04	.1			
UNLOAD									
DRIVE ON	SECOND STREET			25	9:04 TO 9:09				
DRIVE ON	PAGE RD			25	9:09	.1			
DRIVE ON	FIFTH STREET			25	9:11	.7			
DRIVE ON	CANNON ROAD			25	9:13	.6			
DRIVE ON	VANDENBURG BLVD			15	9:14	.3			
PICK UP ON	BOTH SIDES			15	9:14	.2			
PICK UP ON	EOTH SIDES			5	9:20	.1			
PICK UP ON	BAKER DRIVE			5	9:20	.1	5	9	
DRIVE ON	THIRD ST			5	9:44	.1	23	52	
DRIVE ON	GILES AVENUE			15	9:45	.1			
PICK UP ON	VANDENBURG BLVD			5	9:56	.2	9	52	
PICK UP ON	CANNON ROAD			5	10:06	.1	10	69	
DRIVE ON	FIFTH STREET			15	10:07	.2			
DRIVE ON	PAGE RD			25	10:08	.3			
DRIVE ON	SECOND STREET			25	10:09	.6			
DRIVE ON	ROAD TO LAND FILL			25	10:11	.7			
DRIVE ON	ROAD TO LAND FILL			25	10:11	.1			
DRIVE ON	ROAD TO LAND FILL			25	10:11 TO 10:16				
DRIVE ON	ROAD TO LAND FILL			25	10:17	.1			
DRIVE ON	ROAD TO LAND FILL			25	10:17	.1			



ROUTE 3		ROBINS AFB, GA (ORIGINAL ROUTES)		14 CU YU VEHICLE				
ACTION				SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
LEAVE GARAGE								
DRIVE ON	SECOND STREET		TO SECOND STREET	25	0100	.1		
DRIVE ON	PAGE RD		TO PAGE RD	25	0102	.7		
DRIVE ON	FIFTH STREET		TO FIFTH STREET	25	0104	.6		
DRIVE ON	FIFTH STREET		TO CANNON ROAD	25	0104	.3		
PICK UP ON	BOTH SIDES CANNON ROAD		TO VANDENBURG BLVD	5	0124	.2	18	33
PICK UP ON	BOTH SIDES VANDENBURG BLVD		TO CANNON ROAD	5	0127	.0	3	39
PICK UP ON	BOTH SIDES VANDENBURG BLVD		TO WHITEHEAD CIRCLE	5	0137	.1	9	56
PICK UP ON	BOTH SIDES VANDENBURG BLVD		TO WHITEHEAD CIRCLE	5	0144	.1	6	67
PICK UP ON	BOTH SIDES VANDENBURG BLVD		TO ROBINS DRIVE	5	0150	.1	5	77
DRIVE ON	ROBINS DRIVE		TO THIRD ST	15	0150	.1		
DRIVE ON	THIRD ST		TO CANNON ROAD	25	0151	.2		
DRIVE ON	FIFTH STREET		TO PAGE RD	25	0151	.3		
DRIVE ON	PAGE RD		TO SECOND STREET	25	0153	.6		
DRIVE ON	SECOND STREET		TO ROAD TO LAND FILL	25	0155	.7		
DRIVE ON	ROAD TO LAND FILL		TO LAND FILL	25	0155	.1		
UNLOAD								
LEAVE LAND FILL								
DRIVE ON	SECOND STREET		TO SECOND STREET	25	0100	.1		
DRIVE ON	PAGE RD		TO PAGE RD	25	0102	.7		
DRIVE ON	FIFTH STREET		TO FIFTH STREET	25	0104	.6		
DRIVE ON	FIFTH STREET		TO CANNON ROAD	25	0104	.3		
DRIVE ON	CANNON ROAD		TO VANDENBURG BLVD	15	0105	.2		
DRIVE ON	VANDENBURG BLVD		TO ROBINS DRIVE	15	0106	.2		
DRIVE ON	ROBINS DRIVE		TO WARNER DRIVE	15	0107	.3		
PICK UP ON	BOTH SIDES WARNER DRIVE		TO SECOND AVE.	5	0109	.0	2	3
PICK UP ON	BOTH SIDES WARNER DRIVE		TO SECOND AVE.	5	0113	.1	3	9
PICK UP ON	BOTH SIDES SECOND AVE.		TO	5	0124	.1	10	28
PICK UP ON	BOTH SIDES SECOND AVE.		TO	5	0131	.0	7	41
PICK UP ON	BOTH SIDES SECOND AVE.		TO MYRTLE ST.	5	0141	.1	9	58
PICK UP ON	BOTH SIDES SECOND AVE.		TO WARNER DRIVE	5	0149	.1	6	69
PICK UP ON	BOTH SIDES ROBINS DRIVE		TO FIRST AVE.	15	0149	.1		
DRIVE ON	ROBINS DRIVE		TO	15	0149	.1		
DRIVE ON	FIRST AVE.		TO DOVER DRIVE	5	0156	.0	6	81
PICK UP ON	BOTH SIDES FIRST AVE.		TO SOUTH DAVIS DRIVE	5	0156	.1		
PICK UP ON	BOTH SIDES FIRST AVE.		TO CANNON ROAD	25	0159	.2		
DRIVE ON	SOUTH DAVIS DRIVE		TO VANDENBURG BLVD	15	0159	.5		
DRIVE ON	CANNON ROAD		TO CANNON ROAD	15	0159	.0		
DRIVE ON	VANDENBURG BLVD		TO THIRD ST	15	0159	.2		
DRIVE ON	CANNON ROAD		TO PAGE RD	15	0159	.3		
DRIVE ON	FIFTH STREET		TO SECOND STREET	25	0159	.6		
DRIVE ON	PAGE RD		TO	25	0159	.7		
DRIVE ON	SECOND STREET		TO ROAD TO LAND FILL	25	0159	.1		
DRIVE ON	ROAD TO LAND FILL		TO LAND FILL	25	0159	.1		
UNLOAD								
LEAVE LAND FILL								
DRIVE ON	ROAD TO LAND FILL		TO GARAGE	25	0110 TO 0115	.1		
DRIVE ON	TO GARAGE			25	0115	.1		

ROUTE 4	ROBINS AFB, GA (ORIGINAL ROUTES)	14 CU YD VEHICLE	SPEED (MPH)	TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
ACTION	LEAVE GARAGE			01:00			
	DRIVE ON	TO SECOND STREET	25	01:00	.1		
	DRIVE ON	TO PAGE RD	25	01:02	.7		
	DRIVE ON	TO FIFTH STREET	25	01:04	.6		
	DRIVE ON	TO CANNON ROAD	25	01:04	.3		
	DRIVE ON	TO VANDENBURG BLVD	15	01:05	.2		
	DRIVE ON	TO ROBINS DRIVE	15	01:06	.2		
	DRIVE ON	TO FIRST AVE.	15	01:07	.4		
	DRIVE ON	TO DOVER DRIVE	15	01:08	.1		
	PICK UP ON BOTH SIDES	TO SECOND AVE.	5	01:21	.1	12	22
	PICK UP ON BOTH SIDES	TO SOUTH DAVIS DRIVE	5	01:29	.1	8	37
	DRIVE ON	TO CANNON ROAD	25	01:30	.1		37
	PICK UP ON BOTH SIDES	TO DOVER DRIVE	5	01:40	.1	10	56
	PICK UP ON BOTH SIDES	TO SECOND AVE.	5	01:52	.1	10	75
	DRIVE ON	TO WARNER DRIVE	15	01:52	.2		75
	DRIVE ON	TO CANNON ROAD	15	01:53	.1		75
	DRIVE ON	TO VANDENBURG BLVD	15	01:54	.3		75
	DRIVE ON	TO CANNON ROAD	15	01:54	.0		75
	DRIVE ON	TO THIRD ST	15	01:54	.2		75
	DRIVE ON	TO PAGE RD	25	01:55	.3		75
	DRIVE ON	TO SECOND STREET	25	01:57	.6		75
	DRIVE ON	TO ROAD TO LAND FILL	25	01:58	.7		75
	DRIVE ON	TO LAND FILL	25	01:58	.1		75
	DRIVE ON	TO LAND FILL	25	01:59	.1		75
UNLOAD	LEAVE LAND FILL			01:59 TO 9:04			
	DRIVE ON	TO SECOND STREET	25	9:04	.1		
	DRIVE ON	TO PAGE RD	25	9:06	.7		
	DRIVE ON	TO FIFTH STREET	25	9:07	.6		
	DRIVE ON	TO CANNON ROAD	25	9:08	.3		
	DRIVE ON	TO VANDENBURG BLVD	15	9:09	.2		
	DRIVE ON	TO CANNON ROAD	15	9:09	.0		
	DRIVE ON	TO DOVER DRIVE	15	9:11	.5		
	PICK UP ON BOTH SIDES	TO WARNER DRIVE	5	9:14	.2	27	50
	PICK UP ON BOTH SIDES	TO TIBBETS CIRCLE	5	9:15	.2	8	66
	DRIVE ON	TO CANNON ROAD	15	9:15	.2		66
	DRIVE ON	TO VANDENBURG BLVD	15	9:15	.3		66
	DRIVE ON	TO CANNON ROAD	15	9:15	.0		66
	DRIVE ON	TO THIRD ST	15	9:15	.2		66
	DRIVE ON	TO PAGE RD	25	9:15	.3		66
	DRIVE ON	TO SECOND STREET	25	9:15	.6		66
	DRIVE ON	TO ROAD TO LAND FILL	25	9:15	.7		66
	DRIVE ON	TO LAND FILL	25	9:15	.1		66
	DRIVE ON	TO LAND FILL	25	9:15	.1		66
UNLOAD	DRIVE ON	TO GARAGE	25	9:57 TO 10:02	.1		
	DRIVE ON	TO GARAGE	25	10:02	.1		
	DRIVE ON	TO GARAGE	25	10:03	.1		
	DRIVE ON	TO GARAGE	25	10:03	.1		

ROUTE 5		ROBINS AFB, GA (ORIGINAL ROUTES)		14 CU YD VEHICLE					
ACTION				SPEED (MPH)		TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
LEAVE GARAGE						8:00			
DRIVE ON	SECOND STREET	TO SECOND STREET		25		8:00	.1		
DRIVE ON	PAGE RD	TO PAGE RD		25		8:02	.7		
DRIVE ON	FIFTH STREET	TO FIFTH STREET		25		8:04	.3		
DRIVE ON	CANNON ROAD	TO CANNON ROAD		25		8:05	.2		
DRIVE ON	VANDENBURG BLVD	TO VANDENBURG BLVD		15		8:05	.0		
DRIVE ON	CANNON ROAD	TO CANNON ROAD		15		8:06	.3		
DRIVE ON	WARNER DRIVE	TO WARNER DRIVE		15		8:12	.1	5	9
PICK UP ON BOTH SIDES	SECOND AVE.	TO SECOND AVE.		5		8:12	.2	28	62
DRIVE ON	DOVER DRIVE	TO DOVER DRIVE		15		8:13	.1		62
DRIVE ON	FIRST AVE.	TO FIRST AVE.		15		8:13	.1		62
DRIVE ON	ROBINS DRIVE	TO ROBINS DRIVE		15		8:14	.2		62
DRIVE ON	MYRTLE ST.	TO MYRTLE ST.		25		8:14	.7		62
DRIVE ON	DUKE STREET	TO DUKE STREET		25		8:16	.1		62
PICK UP ON BOTH SIDES	MOBILE HOME COURT ENTRANCE	TO MOBILE HOME COURT ENTRANCE		5		8:16	.1	9	70
PICK UP ON BOTH SIDES	MOBILE HOME COURT ENTRANCE	TO MOBILE HOME COURT ENTRANCE		5		8:16	.0	3	73
PICK UP ON BOTH SIDES	MOBILE HOME COURT ENTRANCE	TO MOBILE HOME COURT ENTRANCE		5		8:16	.0	1	74
DRIVE ON	MOBILE HOME COURT ENTRANCE	TO MOBILE HOME COURT ENTRANCE		15		8:16	.0	6	80
PICK UP ON BOTH SIDES	MOBILE HOME COURT ENTRANCE	TO MOBILE HOME COURT ENTRANCE		15		8:18	.0		80
DRIVE ON	DUKE STREET	TO DUKE STREET		25		8:19	.4		80
DRIVE ON	GEORGIA HWY.	TO GEORGIA HWY.		25		8:19	.3		80
DRIVE ON	SECOND STREET	TO SECOND STREET		25		8:12	.8		80
DRIVE ON	ROAD TO LAND FILL	TO ROAD TO LAND FILL		25		8:13	.1		80
DRIVE ON	ROAD TO LAND FILL	TO LAND FILL		25		8:13	.1		80
UNLOAD						9:13 TO 9:18			
DRIVE ON	ROAD TO LAND FILL	TO ROAD TO LAND FILL		25		9:18	.1		
DRIVE ON	ROAD TO LAND FILL	TO GARAGE		25		9:18	.1		

ROUTE 6		ROBINS AFB, GA (ORIGINAL ROUTES)		16 CU YD VEHICLE				
ACTION				SPEED (MPH)	TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
LEAVE GARAGE								
DRIVE ON			TO SECOND STREET	25	8:00	.1		5
DRIVE ON		SECOND STREET	TO F-STREET	25	8:00	.0		14
DRIVE ON		F-STREET	TO FOURTH STREET	25	8:02	.5		14
DRIVE ON		FIFTH STREET	TO CIRCLE	25	8:03	.3		22
DRIVE ON		CIRCLE	TO	15	8:03	.0		25
PICK UP ON BOTH SIDES		CIRCLE	TO	5	8:09	.1	4	5
PICK UP ON BOTH SIDES		CIRCLE	TO	5	8:16	.1	6	14
DRIVE ON		CIRCLE	TO FIFTH STREET	15	8:16	.0		14
DRIVE ON		FIFTH STREET	TO E STREET	25	8:17	.1		14
DRIVE ON		E STREET	TO 5TH TERRACE	15	8:17	.0		14
PICK UP ON BOTH SIDES		5TH TERRACE	TO CLUB DRIVE	5	8:24	.1	6	22
PICK UP ON BOTH SIDES		CLUB DRIVE	TO	5	8:28	.1	2	25
DRIVE ON		CLUB DRIVE	TO FIFTH STREET	15	8:28	.2		25
DRIVE ON		FIFTH STREET	TO F-STREET	25	8:29	.3		25
DRIVE ON		FIFTH STREET	TO OFFICER CIRCLE	15	8:29	.1		25
PICK UP ON BOTH SIDES		FIFTH STREET	TO HOLLEY DRIVE	5	8:31	.1	1	27
DRIVE ON		OFFICER CIRCLE	TO	15	8:32	.0		27
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO	5	8:35	.1	3	31
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO	5	8:41	.1	5	38
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO	5	8:45	.0	3	42
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO	5	8:46	.0	1	44
PICK UP ON BOTH SIDES		HOLLEY DRIVE	TO	5	8:56	.1	8	55
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO	5	9:01	.1	4	61
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO	5	9:11	.2	8	72
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO	5	9:19	.2	6	81
DRIVE ON		OFFICER CIRCLE	TO	15	9:19	.2		81
DRIVE ON		OFFICER CIRCLE	TO FOURTH STREET	15	9:20	.1		81
DRIVE ON		FOURTH STREET	TO F-STREET	15	9:20	.0		81
DRIVE ON		F-STREET	TO SECOND STREET	25	9:21	.5		81
DRIVE ON		SECOND STREET	TO	25	9:21	.0		81
DRIVE ON		ROAD TO LAND FILL	TO ROAD TO LAND FILL	25	9:21	.1		81
DRIVE ON		ROAD TO LAND FILL	TO LAND FILL	25	9:21	.1		81
UNLOAD								
LEAVE LAND FILL								
DRIVE ON			TO SECOND STREET	25	9:26	.1		1
DRIVE ON		SECOND STREET	TO F-STREET	25	9:27	.0		5
DRIVE ON		F-STREET	TO FOURTH STREET	25	9:28	.5		7
DRIVE ON		FOURTH STREET	TO OFFICER CIRCLE	15	9:28	.0		8
DRIVE ON		OFFICER CIRCLE	TO	15	9:29	.1		12
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO	5	9:30	.0	1	17
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO FOURTH STREET	5	9:34	.1	3	17
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO	5	9:36	.1	1	8
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO	5	9:38	.1	1	7
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO FIFTH STREET	5	9:42	.1	3	12
PICK UP ON BOTH SIDES		OFFICER CIRCLE	TO HOLLEY DRIVE	5	9:48	.2	3	17
DRIVE ON		HOLLEY DRIVE	TO OFFICER CIRCLE	15	9:48	.1		17







ACTION	SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
PICK UP ON BOTH SIDES CHERRY DRIVE COURT	5	10:36	.1	6	82
DRIVE ON CHERRY DRIVE COURT	15	10:36	.0		82
DRIVE ON CHERRY DRIVE COURT	15	10:36	.0		82
PICK UP ON BOTH SIDES CHERRY DRIVE CIRCLE	5	10:41	.0	4	88
PICK UP ON BOTH SIDES CHERRY DRIVE CIRCLE	5	10:46	.0	4	94
PICK UP ON BOTH SIDES CHERRY DRIVE CIRCLE	5	10:50	.0	4	100
DRIVE ON CHERRY DRIVE CIRCLE	15	10:50	.0		100
DRIVE ON CHERRY DRIVE	15	10:51	.1		100
DRIVE ON LAKESIDE DRIVE	15	10:51	.1		100
DRIVE ON E STREET	15	10:52	.3		100
DRIVE ON FIFTH STREET	25	10:53	.2		100
DRIVE ON F-TH STREET	15	10:54	.2		100
DRIVE ON F-TH STREET	25	10:55	.5		100
DRIVE ON SECOND STREET	25	10:55	.0		100
DRIVE ON ROAD TO LAND FILL	25	10:55	.1		100
DRIVE ON ROAD TO LAND FILL	25	10:55	.1		100
UNLOAD		10:55 TO 11:00			
DRIVE ON ROAD TO LAND FILL	25	11:00	.1		
DRIVE ON ROAD TO GARAGE	25	11:01	.1		

ROUTE #	ROBINS AFB, GA (ORIGINAL ROUTES)	16 CU YD VEHICLE	SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
ACTION	LEAVE GARAGE			8100			
	DRIVE ON	TO SECOND STREET	25	8100	.1		5
	DRIVE ON	TO F-STREET	25	8100	.0		14
	DRIVE ON	TO FIFTH STREET	25	8102	.5		17
	DRIVE ON	TO FIFTH STREET	15	8102	.2		22
	DRIVE ON	TO E STREET	25	8103	.2		22
	DRIVE ON	TO 6TH STREET	15	8104	.1		22
	DRIVE ON	TO CHERRY DRIVE	15	8105	.2		22
	DRIVE ON	TO CHERRY DRIVE TERRACE	15	8105	.2		22
	PICK UP ON BOTH SIDES	TO CHERRY DRIVE	15	8110	.0	4	45
	PICK UP ON BOTH SIDES	TO CHERRY DRIVE TERRACE	15	8116	.0	6	57
	PICK UP ON BOTH SIDES	CHERRY DRIVE TERRACE	5	8118	.0		62
	PICK UP ON BOTH SIDES	CHERRY DRIVE TERRACE	5	8123	.1	4	71
	PICK UP ON BOTH SIDES	CHERRY DRIVE TERRACE	15	8123	.0		72
	DRIVE ON	TO CHERRY DRIVE	15	8123	.0		77
	DRIVE ON	TO E STREET	15	8124	.2		82
	DRIVE ON	TO NINTH STREET	15	8125	.2		88
	DRIVE ON	TO F-STREET	25	8126	.5		92
	DRIVE ON	TO EIGHTH STREET	25	8126	.2		95
	DRIVE ON	TO H STREET	15	8127	.2		95
	PICK UP ON BOTH SIDES	TO I STREET	5	8145	.2	16	95
	PICK UP ON BOTH SIDES	TO NINTH STREET	5	8155	.2	8	95
	PICK UP ON BOTH SIDES	TO 9TH TERRACE	5	9100	.1	4	95
	PICK UP ON BOTH SIDES	TO 9TH TERRACE	5	9107	.1	6	95
	PICK UP ON BOTH SIDES	TO 9TH TERRACE	5	9108	.0	1	95
	PICK UP ON BOTH SIDES	TO 9TH TERRACE	5	9112	.0	3	95
	DRIVE ON	TO NINTH STREET	15	9112	.1		95
	PICK UP ON BOTH SIDES	TO AIRMEN STREET	5	9117	.1	4	95
	PICK UP ON BOTH SIDES	TO AIRMEN STREET	5	9122	.1	4	95
	PICK UP ON BOTH SIDES	TO AIRMEN STREET	5	9126	.1	3	95
	PICK UP ON BOTH SIDES	TO EIGHTH STREET	5	9129	.1	2	95
	DRIVE ON	TO F-STREET	15	9130	.2		95
	DRIVE ON	TO 7TH STREET	15	9130	.1		95
	DRIVE ON	TO FIFTH STREET	25	9132	.6		95
	DRIVE ON	TO F-STREET	25	9132	.2		95
	DRIVE ON	TO FOURTH STREET	15	9133	.2		95
	DRIVE ON	TO SECOND STREET	25	9134	.5		95
	DRIVE ON	TO ROAD TO LAND FILL	25	9134	.0		95
	DRIVE ON	TO LAND FILL	25	9134	.1		95
	UNLOAD			9134 TO 9135			
	LEAVE LAND FILL			9139			
	DRIVE ON	TO SECOND STREET	25	9140	.1		
	DRIVE ON	TO F-STREET	25	9140	.0		
	DRIVE ON	TO FOURTH STREET	25	9141	.5		
	DRIVE ON	TO FIFTH STREET	15	9142	.2		
	DRIVE ON	TO F-STREET	25	9142	.2		
	DRIVE ON	TO 7TH STREET	25	9143	.6		
	DRIVE ON	TO EIGHTH STREET	15	9144	.1		



ACTION	SPEED (MPH)	TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
DRIVE ON	15	9:44	.2		
DRIVE ON	15	9:45	.1		
PICK UP ON BOTH SIDES AIRMEN STREET	5	9:51	.1	5	7
PICK UP ON BOTH SIDES AIRMEN STREET	5	9:58	.1	6	15
PICK UP ON BOTH SIDES AIRMEN STREET	5	10:00	.0	2	18
PICK UP ON BOTH SIDES AIRMEN STREET	5	10:07	.1	6	27
PICK UP ON BOTH SIDES AIRMEN STREET	5	10:16	.1	8	38
PICK UP ON BOTH SIDES AIRMEN STREET	5	10:21	.1	4	44
PICK UP ON BOTH SIDES AIRMEN STREET	5	10:26	.1	5	51
PICK UP ON BOTH SIDES AIRMEN STREET	5	10:31	.0	4	57
DRIVE ON	15	10:31	.1		
PICK UP ON BOTH SIDES CRESENT DRIVE	5	10:36	.1	4	62
PICK UP ON BOTH SIDES CRESENT DRIVE	5	10:41	.1	4	68
PICK UP ON BOTH SIDES CRESENT DRIVE	5	10:48	.2	5	75
PICK UP ON BOTH SIDES I STREET	5	10:53	.1	4	81
PICK UP ON BOTH SIDES I STREET	5	10:57	.1	3	85
DRIVE ON	15	10:57	.2		
DRIVE ON	15	10:59	.4		
DRIVE ON	15	11:00	.2		
DRIVE ON	15	11:00	.1		
DRIVE ON	25	11:01	.6		
DRIVE ON	25	11:02	.2		
DRIVE ON	15	11:02	.2		
DRIVE ON	25	11:04	.5		
DRIVE ON	25	11:04	.0		
DRIVE ON	25	11:04	.1		
DRIVE ON	25	11:04	.1		
UNLOAD		11:04 TO 11:05			
DRIVE ON	25	11:09	.1		
DRIVE ON	25	11:10	.1		

ROUTE	9	ROBINS AFB, GA (ORIGINAL ROUTES)	16 QU YD VEHICLE	SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
LEAVE GARAGE								
DRIVE ON		SECOND STREET	25	8100	.1			8
DRIVE ON		F-STREET	25	8100	.0			31
DRIVE ON		F-STREET	25	8102	.5			36
DRIVE ON		F-STREET	15	8102	.2			44
DRIVE ON		FIFTH STREET	25	8103	.2			50
DRIVE ON		F-STREET	25	8104	.6			58
DRIVE ON		F-STREET	15	8104	.1			67
DRIVE ON		EIGHTH STREET	15	8105	.2			67
DRIVE ON		H STREET	15	8106	.2			75
PICK UP ON BOTH SIDES		H STREET	5	8114	.2		6	75
PICK UP ON BOTH SIDES		TENTH STREET	5	8122	.2		16	75
PICK UP ON BOTH SIDES		7TH STREET	5	8138	.1		5	75
PICK UP ON BOTH SIDES		7TH STREET	5	8143	.1		4	75
PICK UP ON BOTH SIDES		CHESNUT DRIVE	5	8148	.1		4	75
PICK UP ON BOTH SIDES		I STREET	5	8156	.1		6	75
PICK UP ON BOTH SIDES		I STREET	5	9103	.1		6	75
PICK UP ON BOTH SIDES		7TH STREET	15	9103	.1		6	75
PICK UP ON BOTH SIDES		AIRMEN STREET	5	9110	.1		6	75
DRIVE ON		I STREET	15	9111	.1			75
DRIVE ON		TENTH STREET	15	9112	.4			75
DRIVE ON		F-STREET	25	9113	.4			75
DRIVE ON		F-STREET	15	9113	.1			75
DRIVE ON		F-STREET	25	9115	.6			75
DRIVE ON		FIFTH STREET	25	9115	.2			75
DRIVE ON		F-STREET	15	9116	.2			75
DRIVE ON		F-STREET	25	9117	.5			75
DRIVE ON		SECOND STREET	25	9117	.0			75
DRIVE ON		ROAD TO LAND FILL	25	9117	.1			75
DRIVE ON		ROAD TO LAND FILL	25	9118	.1			75
UNLOAD								
LEAVE LAND FILL								
DRIVE ON		SECOND STREET	25	9123	.1			14
DRIVE ON		F-STREET	25	9123	.0			19
DRIVE ON		F-STREET	25	9124	.5			22
DRIVE ON		FIFTH STREET	15	9125	.2			31
DRIVE ON		FIFTH STREET	25	9125	.2			34
DRIVE ON		F-STREET	25	9127	.6			38
DRIVE ON		F-STREET	15	9127	.1			41
DRIVE ON		EIGHTH STREET	15	9128	.2			
DRIVE ON		H STREET	15	9129	.4			
DRIVE ON		ELEVENTH STREET	15	9140	.1		10	
PICK UP ON BOTH SIDES		ELEVENTH STREET	5	9145	.0		4	
PICK UP ON BOTH SIDES		ELEVENTH STREET	5	9147	.0		2	
PICK UP ON BOTH SIDES		ELEVENTH STREET	5	9154	.0		6	
PICK UP ON BOTH SIDES		ELEVENTH STREET	5	9156	.0		2	
PICK UP ON BOTH SIDES		ELEVENTH STREET	5	10200	.0		3	
PICK UP ON BOTH SIDES		12TH STREET	5	10103	.1		2	

ACTION	SPEED (MPH)	TIME (HR:MIN)	DISTANCE (PILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
DRIVE ON	15	10:03	.0		41
PICK UP ON BOTH SIDES	15	10:05	.1	2	44
DRIVE ON	15	10:06	.1		44
PICK UP ON BOTH SIDES	15	10:11	.1	4	50
PICK UP ON BOTH SIDES	15	10:17	.0	6	58
PICK UP ON BOTH SIDES	15	10:22	.1	4	64
DRIVE ON	15	10:22	.1		64
DRIVE ON	15	10:23	.1		64
PICK UP ON BOTH SIDES	15	10:28	.1	4	69
DRIVE ON	15	10:30	.0		72
PICK UP ON BOTH SIDES	15	10:32	.0	2	75
PICK UP ON BOTH SIDES	15	10:38	.1	4	81
DRIVE ON	15	10:39	.4		81
DRIVE ON	15	10:40	.2		81
DRIVE ON	15	10:40	.1		81
DRIVE ON	25	10:42	.6		81
DRIVE ON	25	10:42	.2		81
DRIVE ON	15	10:43	.2		81
DRIVE ON	25	10:44	.5		81
DRIVE ON	25	10:44	.0		81
DRIVE ON	25	10:44	.1		81
DRIVE ON	25	10:45	.1		81
UNLOAD		10:45 TO 10:50			
DRIVE ON	25	10:50	.1		
DRIVE ON	25	10:50	.1		

TO ELEVENTH TERRACE  
 TO CRESENT DRIVE  
 TO 12TH STREET  
 TO  
 TO ELEVENTH STREET  
 TO 12TH STREET  
 TO ELEVENTH TERRACE  
 TO H STREET  
 TO H STREET TERRACE  
 TO ELEVENTH STREET  
 TO H STREET CIRCLE  
 TO ELEVENTH STREET  
 TO EIGHTH STREET  
 TO F-STREET  
 TO 7TH STREET  
 TO FIFTH STREET  
 TO F-STREET  
 TO FOURTH STREET  
 TO SECOND STREET  
 TO  
 TO ROAD TO LAND FILL  
 TO LAND FILL

12TH STREET  
 ELEVENTH TERRACE  
 ELEVENTH TERRACE  
 ELEVENTH TERRACE  
 ELEVENTH TERRACE  
 ELEVENTH TERRACE  
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 12TH STREET  
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 EIGHTH STREET  
 F-STREET  
 F-STREET  
 FIFTH STREET  
 F-STREET  
 F-STREET  
 SECOND STREET  
 ROAD TO LAND FILL

ROAD TO LAND FILL  
 ROAD TO LAND FILL  
 ROAD TO LAND FILL



ACTION	SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
PICK UP ON BOTH SIDES RANDOLPH	5	10:17	.1	16	59
PICK UP ON BOTH SIDES RANDOLPH	5	10:18	.1	18	85
DRIVE ON RANDOLPH	15	10:20	.5		85
DRIVE ON WELBORN STREET	25	10:29	.3		85
DRIVE ON VANDENBURG BLVD	15	10:40	.3		85
DRIVE ON CANNON ROAD	15	10:41	.2		85
DRIVE ON FIFTH STREET	25	10:41	.3		85
DRIVE ON PAGE RD	25	10:43	.6		85
DRIVE ON SECOND STREET	25	10:45	.7		85
DRIVE ON ROAD TO LAND FILL	25	10:45	.1		85
DRIVE ON ROAD TO LAND FILL	25	10:45	.1		85
UNLOAD		10:45 TO 10:50			
DRIVE ON ROAD TO LAND FILL	25	10:50	.1		
DRIVE ON TO GARAGE	25	10:51	.1		



# ROUTE 11 ROBINS AFB, GA (ORIGINAL ROUTES)

ACTION

16 CU YD VEHICLE

TIME (H:MM) DISTANCE (MILES) HOUSEHOLDS SERVICED LOAD (PCT)

LEAVE GARAGE

DRIVE ON SECOND STREET  
 DRIVE ON PAGE RD  
 DRIVE ON FIFTH STREET  
 DRIVE ON CANNON ROAD  
 DRIVE ON VANDENBURG BLVD  
 DRIVE ON WELBORN STREET  
 DRIVE ON RANDOLPH  
 PICK UP ON BOTH SIDES RANDOLPH  
 PICK UP ON BOTH SIDES KELLY  
 PICK UP ON BOTH SIDES OLMSAD STREET  
 PICK UP ON BOTH SIDES MC CLELLAN  
 PICK UP ON BOTH SIDES MC CLELLAN  
 PICK UP ON BOTH SIDES OFFUTT  
 DRIVE ON RANDOLPH  
 DRIVE ON WELBORN STREET  
 DRIVE ON VANDENBURG BLVD  
 DRIVE ON CANNON ROAD  
 DRIVE ON FIFTH STREET  
 DRIVE ON PAGE RD  
 DRIVE ON SECOND STREET  
 DRIVE ON ROAD TO LAND FILL

TO SECOND STREET  
 TO PAGE RD  
 TO FIFTH STREET  
 TO CANNON ROAD  
 TO VANDENBURG BLVD  
 TO WELBORN STREET  
 TO RANDOLPH  
 TO SOUTH DAVIS DRIVE  
 TO KELLY  
 TO OLMSAD STREET  
 TO MC CLELLAN  
 TO OFFUTT  
 TO RANDOLPH  
 TO WELBORN STREET  
 TO VANDENBURG BLVD  
 TO CANNON ROAD  
 TO THIRD ST  
 TO PAGE RD  
 TO SECOND STREET  
 TO ROAD TO LAND FILL  
 TO LAND FILL

25  
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 82

29

UNLOAD

LEAVE LAND FILL  
 DRIVE ON SECOND STREET  
 DRIVE ON PAGE RD  
 DRIVE ON FIFTH STREET  
 DRIVE ON CANNON ROAD  
 DRIVE ON VANDENBURG BLVD  
 DRIVE ON WELBORN STREET  
 DRIVE ON RANDOLPH  
 PICK UP ON BOTH SIDES RANDOLPH  
 PICK UP ON BOTH SIDES OLMSAD STREET  
 PICK UP ON BOTH SIDES OLMSAD STREET  
 DRIVE ON OLMSAD STREET  
 DRIVE ON OLMSAD STREET  
 PICK UP ON BOTH SIDES MC CLELLAN  
 PICK UP ON BOTH SIDES MC CLELLAN  
 PICK UP ON BOTH SIDES MC CLELLAN  
 PICK UP ON BOTH SIDES BROOKLEY AVE  
 PICK UP ON BOTH SIDES BROOKLEY COURT  
 PICK UP ON BOTH SIDES BROOKLEY COURT

TO SECOND STREET  
 TO PAGE RD  
 TO FIFTH STREET  
 TO CANNON ROAD  
 TO VANDENBURG BLVD  
 TO WELBORN STREET  
 TO RANDOLPH  
 TO OLMSAD STREET  
 TO MC CLELLAN  
 TO BROOKLEY AVE  
 TO MC CLELLAN  
 TO MC CLELLAN  
 TO OFFUTT  
 TO OLMSAD STREET  
 TO BROOKLEY AVE  
 TO BROOKLEY COURT  
 TO BROOKLEY COURT

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 77  
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 82  
 87

ACTION	SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
DRIVE ON	15	10:45	.5		87
DRIVE ON	15	10:46	.0		87
DRIVE ON	25	10:46	.3		87
DRIVE ON	15	10:47	.3		87
DRIVE ON	15	10:48	.2		87
DRIVE ON	25	10:48	.3		87
DRIVE ON	25	10:50	.6		87
DRIVE ON	25	10:52	.7		87
DRIVE ON	25	10:52	.1		87
DRIVE ON	25	10:52	.1		87
UNLOAD		10:52 TO 10:57			
DRIVE ON	25	10:57	.1		
DRIVE ON	25	10:58	.1		
TO RANDOLPH					
TO WELBORN STREET					
TO VANDENBURG BLVD					
TO CANNON ROAD					
TO THIRD ST					
TO PAGE RD					
TO SECOND STREET					
TO ROAD TO LAND FILL					
TO LAND FILL					
TO GARAGE					

ROUTE 12	ROBINS AFB, GA (ORIGINAL ROUTES)	16 CU YD VEHICLE	SPEED (MPH)	TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
ACTION							
LEAVE GARAGE				8:00			
DRIVE ON	SECOND STREET	TO SECOND STREET	25	8:00	.1		
DRIVE ON	PAGE RD	TO PAGE RD	25	8:02	.7		
DRIVE ON	FIFTH STREET	TO FIFTH STREET	25	8:04	.6		
DRIVE ON	CANNON ROAD	TO CANNON ROAD	25	8:05	.3		
DRIVE ON	VANDENBURG BLVD	TO VANDENBURG BLVD	15	8:06	.2		
DRIVE ON	WELBORN STREET	TO WELBORN STREET	15	8:07	.3		
DRIVE ON	RANDOLPH	TO RANDOLPH	25	8:08	.3		
DRIVE ON	OLMSTAD STREET	TO BROCKLEY AVE.	15	8:09	.2		
DRIVE ON	BROCKLEY AVE.	TO BROCKLEY COURT	15	8:09	.1		
PICK LP ON BOTH SIDES	BROCKLEY AVE.	TO BROCKLEY COURT	5	8:12	.1	3	4
PICK LP ON BOTH SIDES	BROCKLEY AVE.	TO HILL STREET	5	8:15	.1	2	7
PICK LP ON BOTH SIDES	BROCKLEY AVE.	TO HILL STREET	5	8:22	.1	6	15
PICK LP ON BOTH SIDES	HILL STREET	TO NORTON	5	8:45	.2	21	45
PICK LP ON BOTH SIDES	HILL STREET	TO RANDOLPH	5	8:50	.1	5	52
DRIVE ON	HILL STREET	TO NORTON	15	8:51	.1		
PICK LP ON BOTH SIDES	NORTON	TO MARCH STREET	5	8:58	.1	6	52
PICK LP ON BOTH SIDES	NORTON	TO BROCKLEY AVE.	5	9:11	.1	12	61
DRIVE ON	BROCKLEY AVE.	TO RANDOLPH	15	9:11	.1		
DRIVE ON	RANDOLPH	TO WELBORN STREET	15	9:11	.0		
DRIVE ON	WELBORN STREET	TO VANDENBURG BLVD	25	9:12	.3		
DRIVE ON	VANDENBURG BLVD	TO CANNON ROAD	15	9:13	.3		
DRIVE ON	CANNON ROAD	TO THIRD ST	15	9:14	.2		
DRIVE ON	FIFTH STREET	TO PAGE RD	25	9:14	.3		
DRIVE ON	SECOND STREET	TO SECOND STREET	25	9:16	.6		
DRIVE ON	ROAD TO LAND FILL	TO ROAD TO LAND FILL	25	9:18	.7		
DRIVE ON	ROAD TO LAND FILL	TO LAND FILL	25	9:18	.1		
DRIVE ON	ROAD TO LAND FILL	TO LAND FILL	25	9:18	.1		
UNLOAD				9:18 TO 9:23			
LEAVE LAND FILL				9:23			
DRIVE ON	SECOND STREET	TO SECOND STREET	25	9:23	.1		
DRIVE ON	PAGE RD	TO PAGE RD	25	9:25	.7		
DRIVE ON	FIFTH STREET	TO FIFTH STREET	25	9:27	.6		
DRIVE ON	CANNON ROAD	TO CANNON ROAD	25	9:27	.3		
DRIVE ON	VANDENBURG BLVD	TO VANDENBURG BLVD	15	9:28	.2		
DRIVE ON	WELBORN STREET	TO WELBORN STREET	15	9:29	.3		
DRIVE ON	RANDOLPH	TO RANDOLPH	25	9:30	.3		
DRIVE ON	BROCKLEY AVE.	TO BROCKLEY AVE.	15	9:30	.0		
DRIVE ON	BROCKLEY AVE.	TO GRIFFISS	15	9:30	.1		
PICK LP ON BOTH SIDES	GRIFFISS	TO MARCH STREET	5	9:45	.1	13	18
PICK LP ON BOTH SIDES	MARCH STREET	TO NORTON	5	9:52	.1	6	27
DRIVE ON	MARCH STREET	TO GRIFFISS	15	9:52	.1		
PICK LP ON BOTH SIDES	MARCH STREET	TO BROCKLEY AVE.	5	10:03	.1	10	41
PICK LP ON BOTH SIDES	BROCKLEY AVE.	TO HILL STREET	5	10:09	.1	6	50
DRIVE ON	BROCKLEY AVE.	TO MARCH STREET	15	10:10	.1		
PICK LP ON BOTH SIDES	BROCKLEY AVE.	TO MARCH STREET	5	10:14	.1	13	58
PICK LP ON BOTH SIDES	BROCKLEY AVE.	TO ENT	5	10:33	.1	8	79







ACTION	SPEED (MPH)	TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
DRIVE ON	25	10:37	.1		81
DRIVE ON	25	10:38	.1		81
ROAD TO LAND FILL					
TO ROAD TO LAND FILL					
TO LAND FILL					
UNLOAD	25	10:38 TO 10:43	.1		
DRIVE ON	25	10:43	.1		
DRIVE ON	25	10:43	.1		
TO GARAGE					



ACTION	SPEED (MPH)	TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
DRIVE ON	25	9:23	.6		2
DRIVE ON	15	9:24	.1		5
DRIVE ON	25	9:25	.4		5
DRIVE ON	15	9:26	.2		5
DRIVE ON	15	9:26	.0		5
DRIVE ON	15	9:26	.0		5
PICK UP ON BOTH SIDES	5	9:29	.0	2	2
PICK UP ON BOTH SIDES	5	9:31	.0	2	5
DRIVE ON	15	9:31	.0		5
DRIVE ON	15	9:31	.0		5
DRIVE ON	15	9:34	.1	2	8
PICK UP ON BOTH SIDES	5	9:34	.0	4	14
PICK UP ON BOTH SIDES	5	9:35	.0	4	19
PICK UP ON BOTH SIDES	5	9:42	.0	4	25
PICK UP ON BOTH SIDES	5	9:47	.0	4	25
DRIVE ON	15	9:48	.0		25
DRIVE ON	15	9:52	.0	4	31
PICK UP ON BOTH SIDES	5	9:57	.0	4	37
PICK UP ON BOTH SIDES	5	9:59	.0	2	39
DRIVE ON	15	9:59	.0		39
PICK UP ON BOTH SIDES	5	10:14	.1	14	59
PICK UP ON BOTH SIDES	5	10:27	.1	12	77
PICK UP ON BOTH SIDES	5	10:34	.1	6	85
PICK UP ON BOTH SIDES	5	10:39	.0	4	91
DRIVE ON	15	10:39	.1		91
DRIVE ON	15	10:39	.0		91
DRIVE ON	25	10:40	.5		91
DRIVE ON	15	10:41	.1		91
DRIVE ON	25	10:42	.6		91
DRIVE ON	25	10:43	.2		91
DRIVE ON	15	10:43	.2		91
DRIVE ON	25	10:45	.5		91
DRIVE ON	25	10:45	.0		91
DRIVE ON	25	10:45	.1		91
DRIVE ON	25	10:45	.1		91
UNLOAD		10:45 TO 10:50			
DRIVE ON	25	10:50	.1		
DRIVE ON	25	10:50	.1		



APPENDIX B

ORIGINAL ROUTE MAPS



ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 1 TRIP 1  
14 CU YD VEHICLE

TRAVEL  
COLLECT BOTH SIDES  
COLLECT RIGHT SIDE



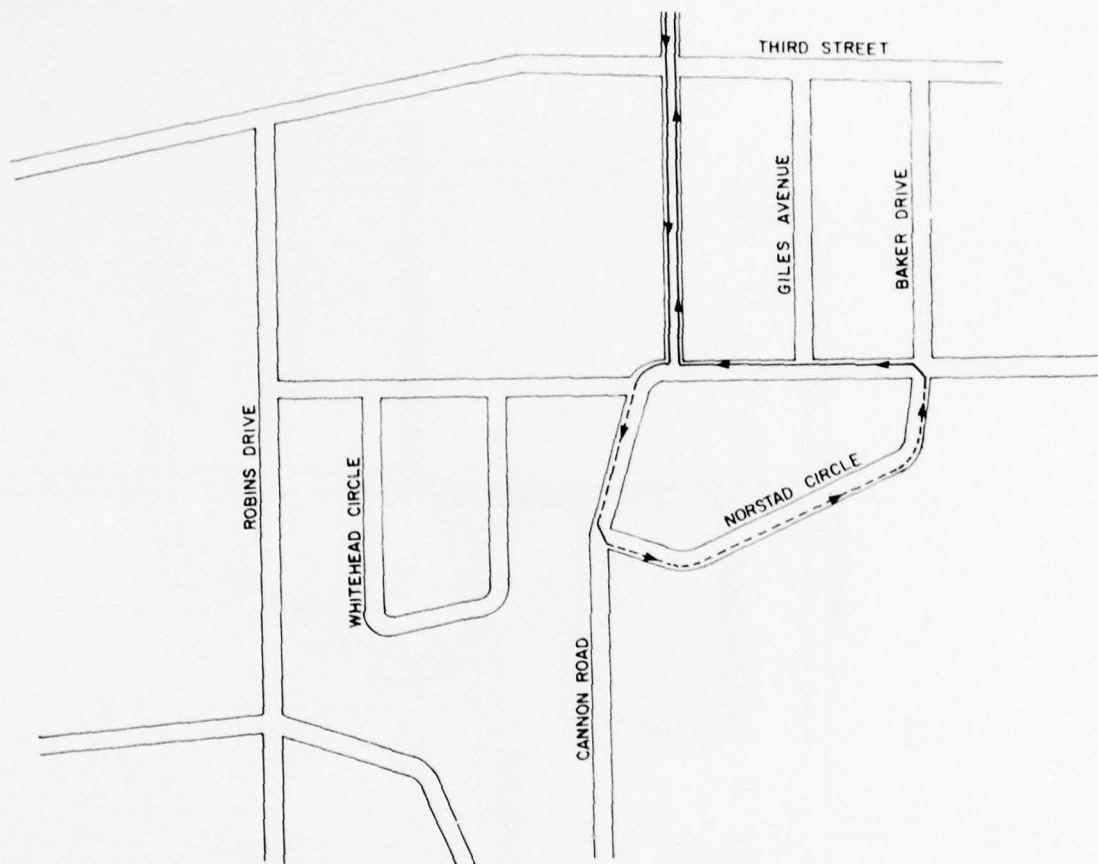
ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 1 TRIP 2  
14 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 2 TRIP 1  
14 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB, GA.  
(ORIGINAL ROUTES)

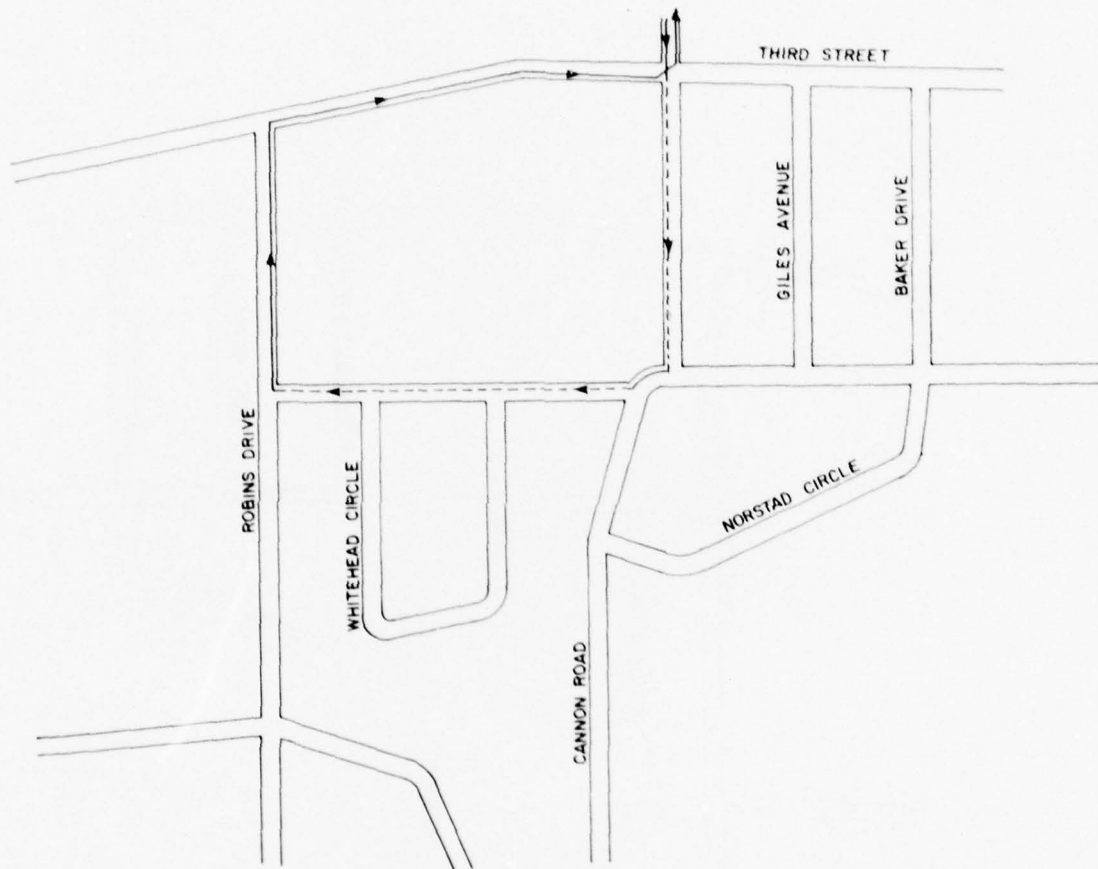
ROUTE 2 TRIP 2  
14 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE

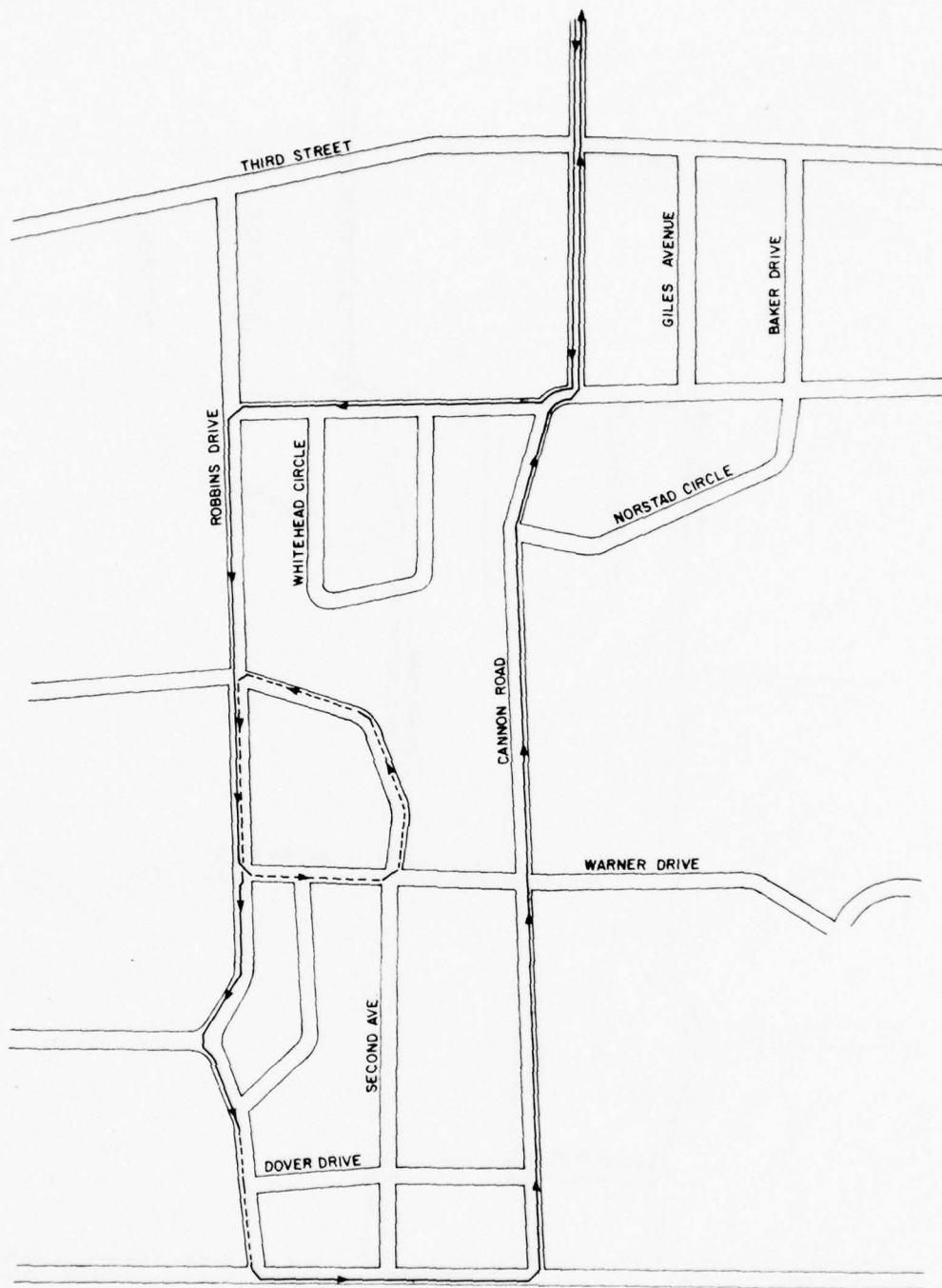




ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 3 TRIP 1  
14 CU YD VEHICLE

TRAVEL  
COLLECT BOTH SIDES  
COLLECT RIGHT SIDE



ROBINS AFB, GA.  
(ORIGINAL ROUTES)

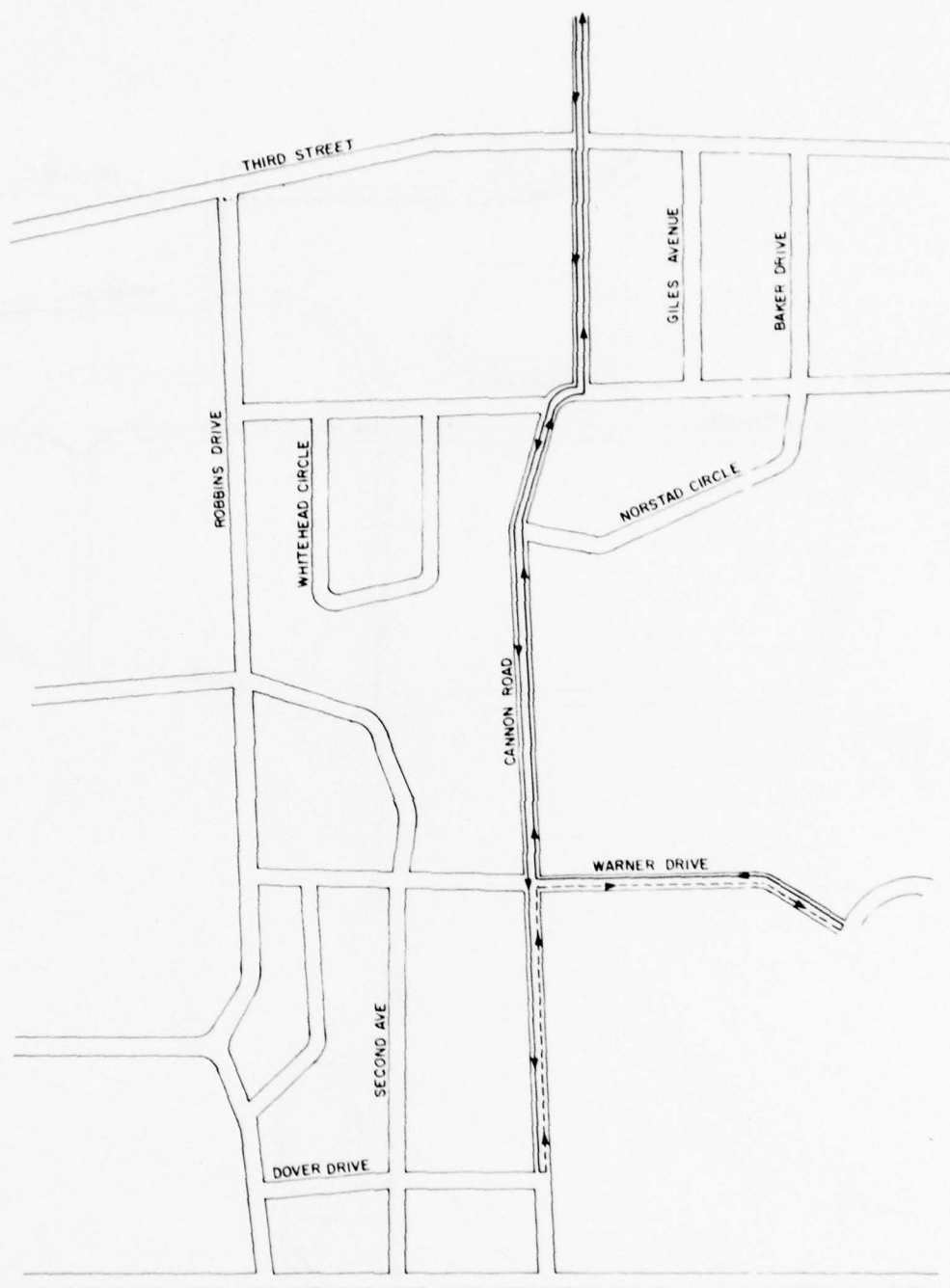
ROUTE 3 TRIP 2  
14 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE





ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 4 TRIP 2  
14 CU YD VEHICLE

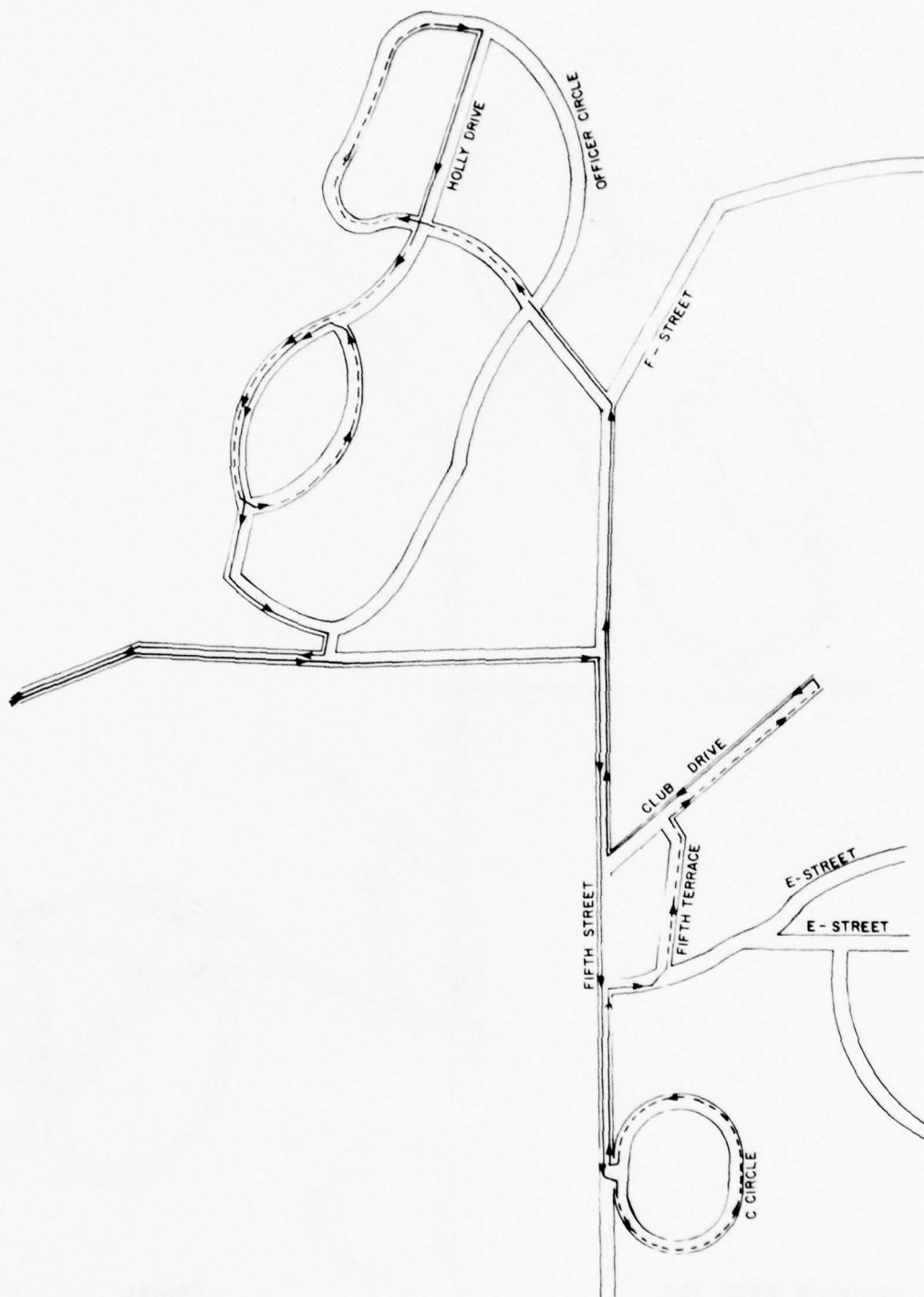
TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE







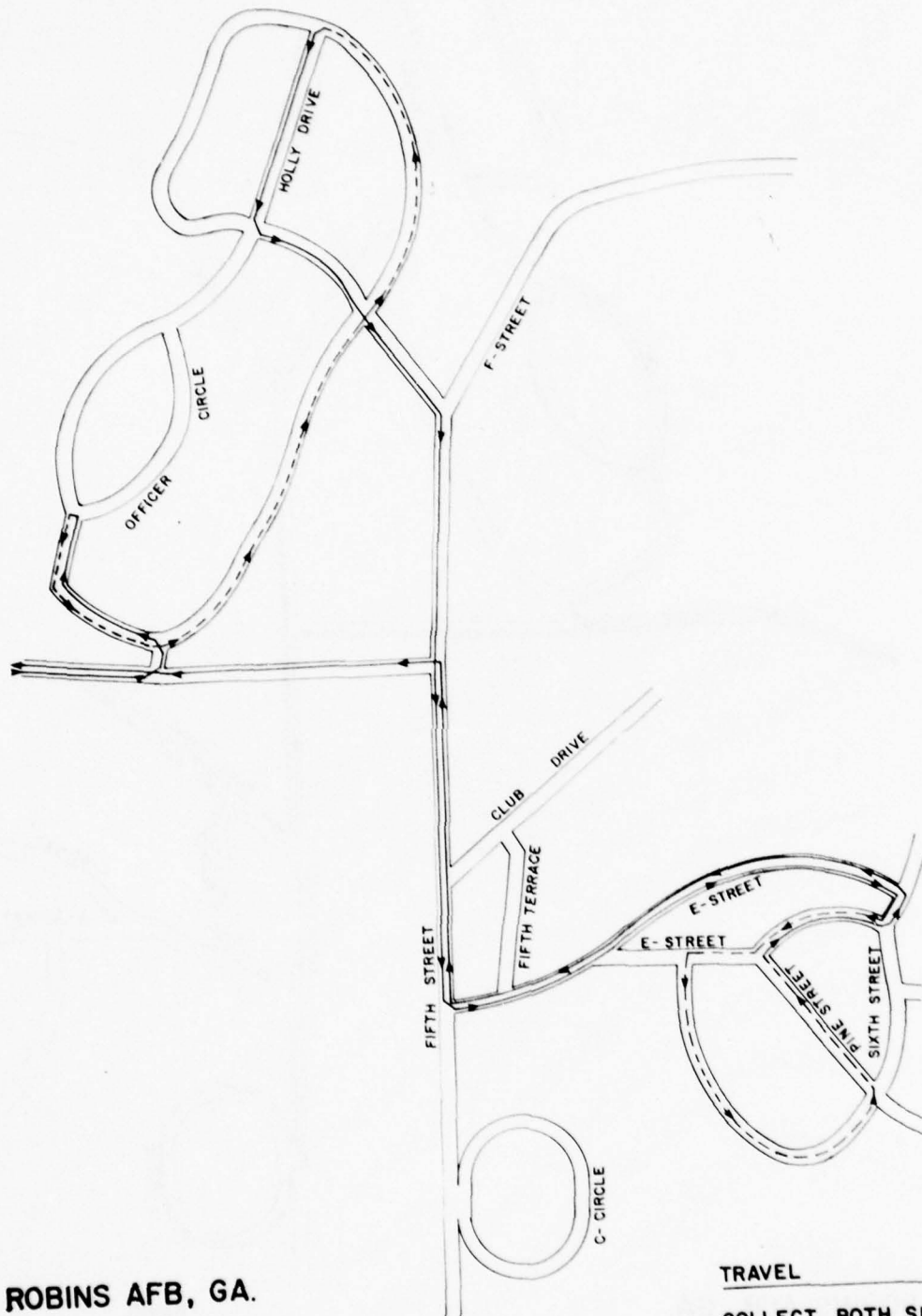
ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 6 TRIP 1  
16 CU YD VEHICLE

TRAVEL

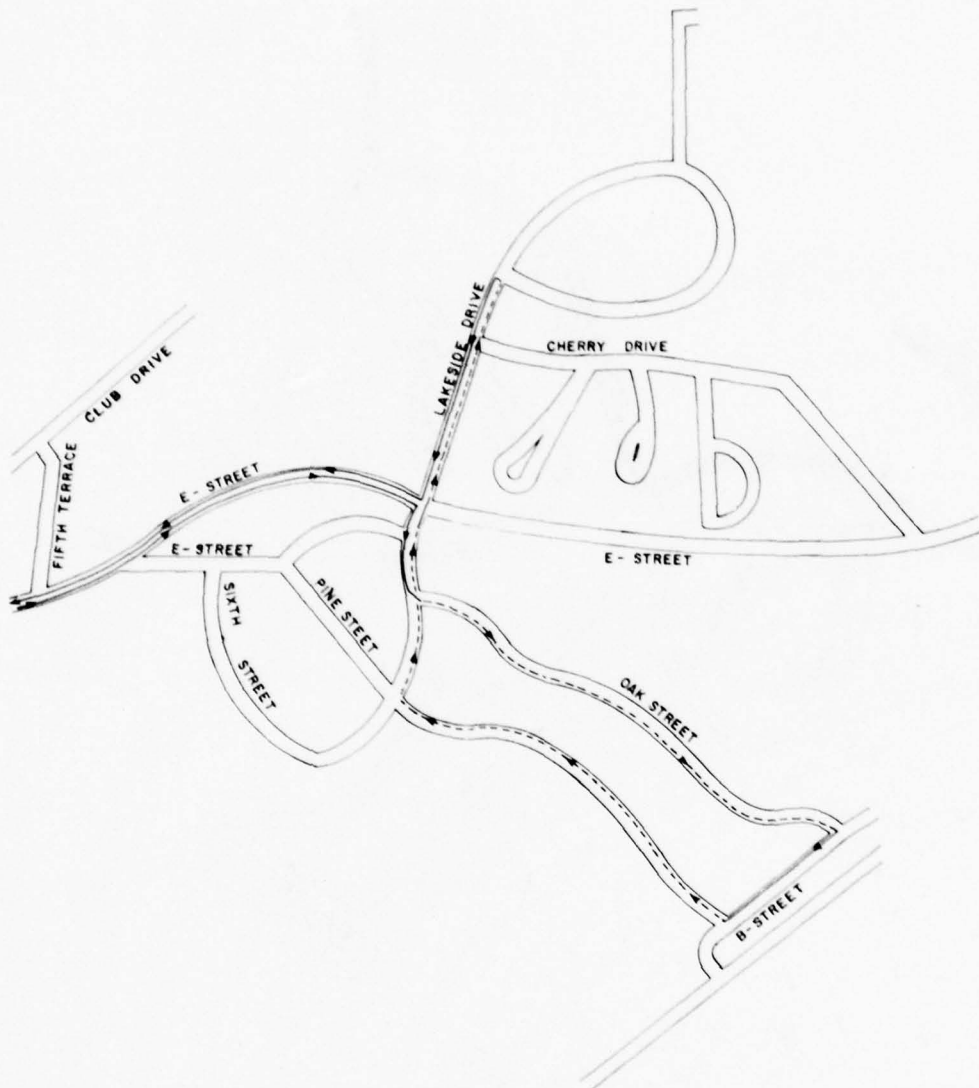
COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 6 TRIP 2  
16 CU YD VEHICLE

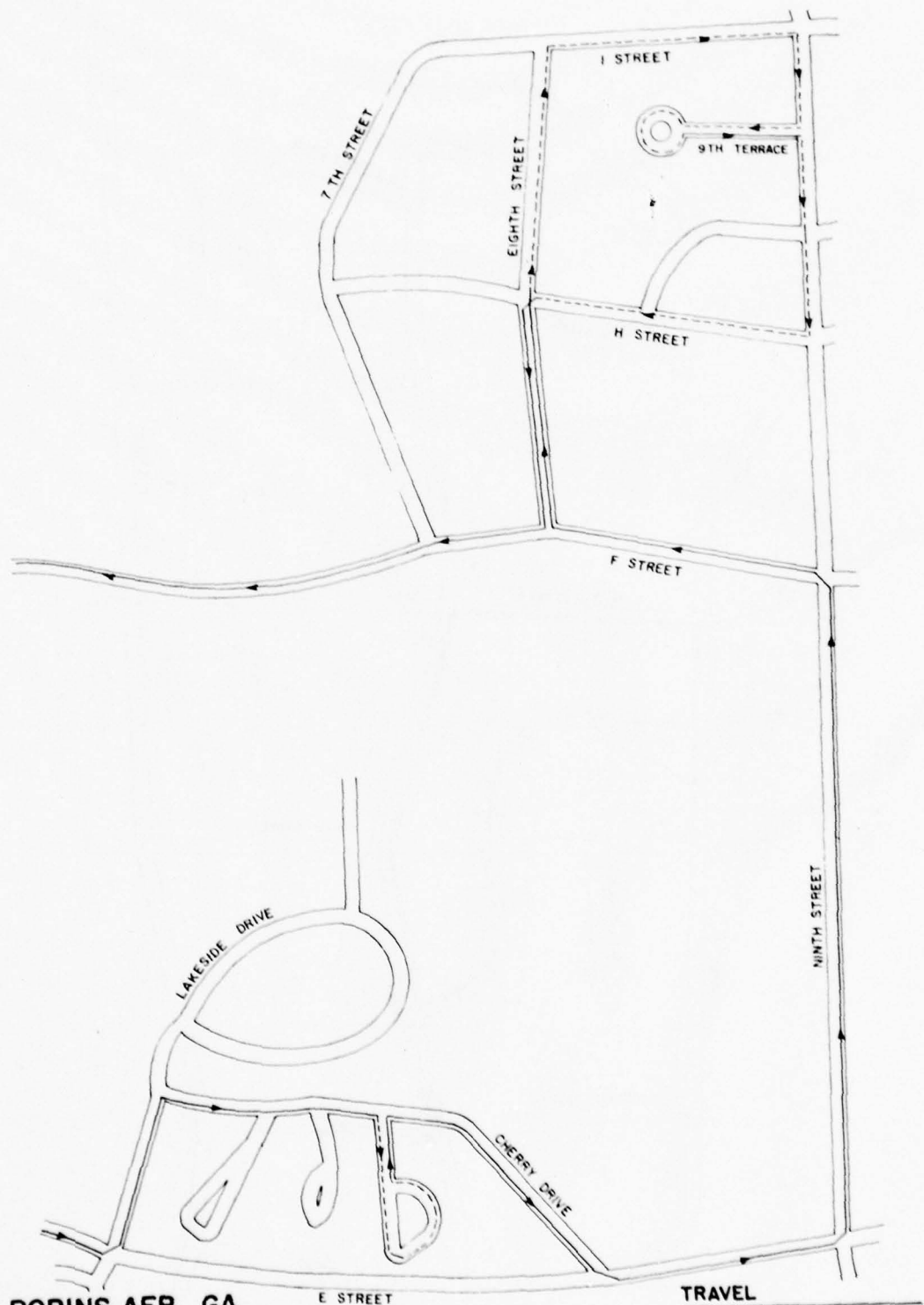


ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 7 TRIP 1  
16 CU YD VEHICLE

TRAVEL  
COLLECT BOTH SIDES  
COLLECT RIGHT SIDE





ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 8 TRIP 1  
16 CU YD VEHICLE

TRAVEL  
COLLECT BOTH SIDES  
COLLECT RIGHT SIDE





ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 8 TRIP 2  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 9 TRIP 1  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



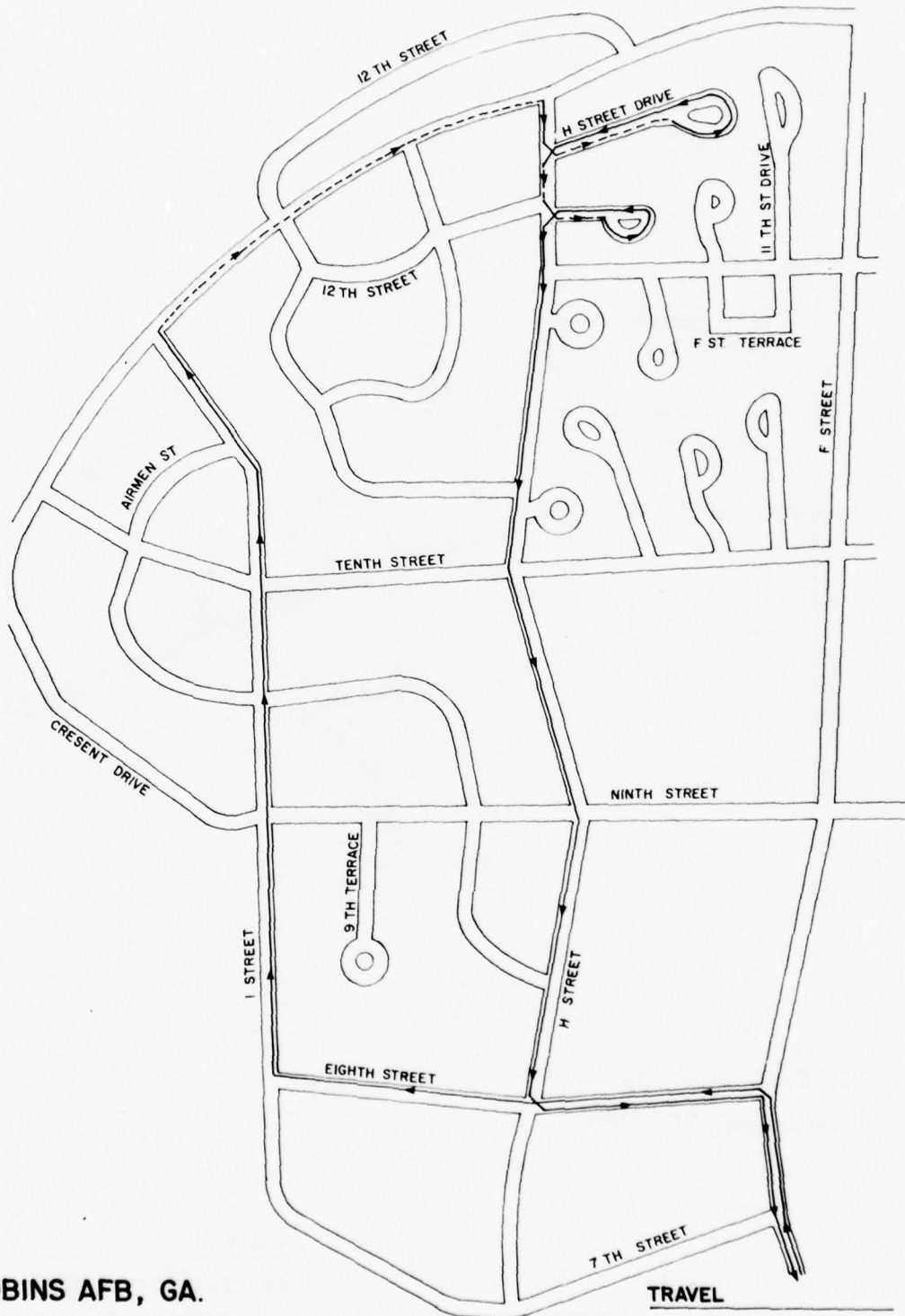
ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 9 TRIP 2  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



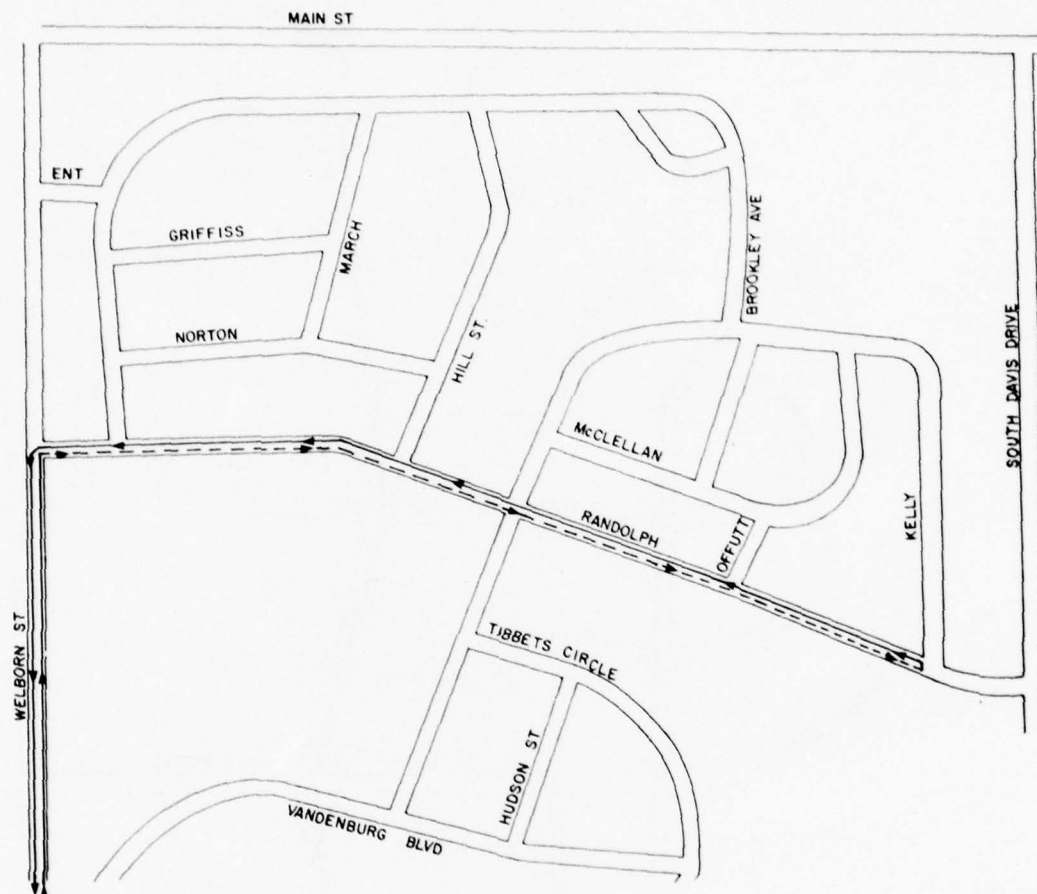
ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 10 TRIP 1  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB , GA.  
(ORIGINAL ROUTES)

ROUTE 10 TRIP 2  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE





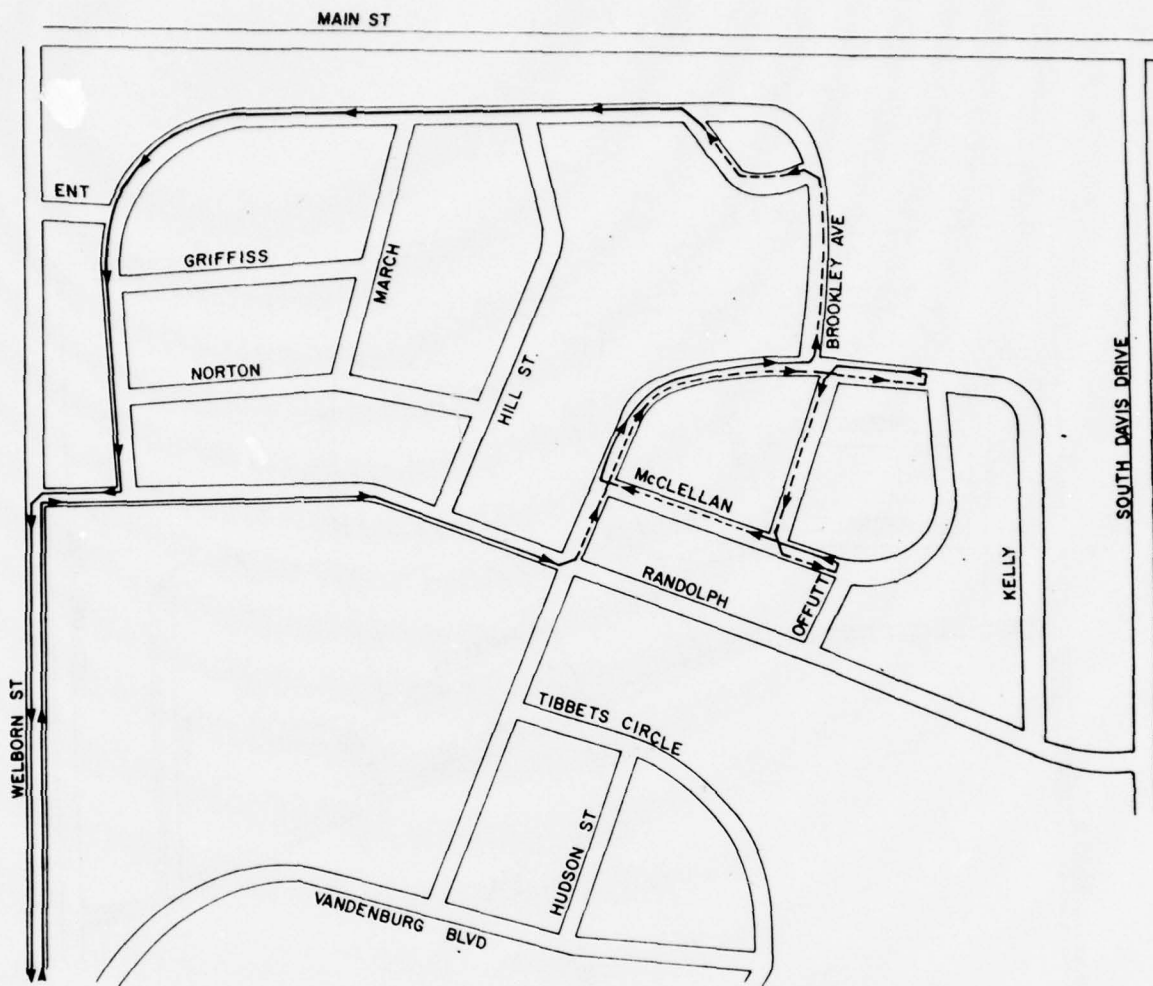
ROBINS AFB , GA.  
(ORIGINAL ROUTES)

ROUTE II TRIP I  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



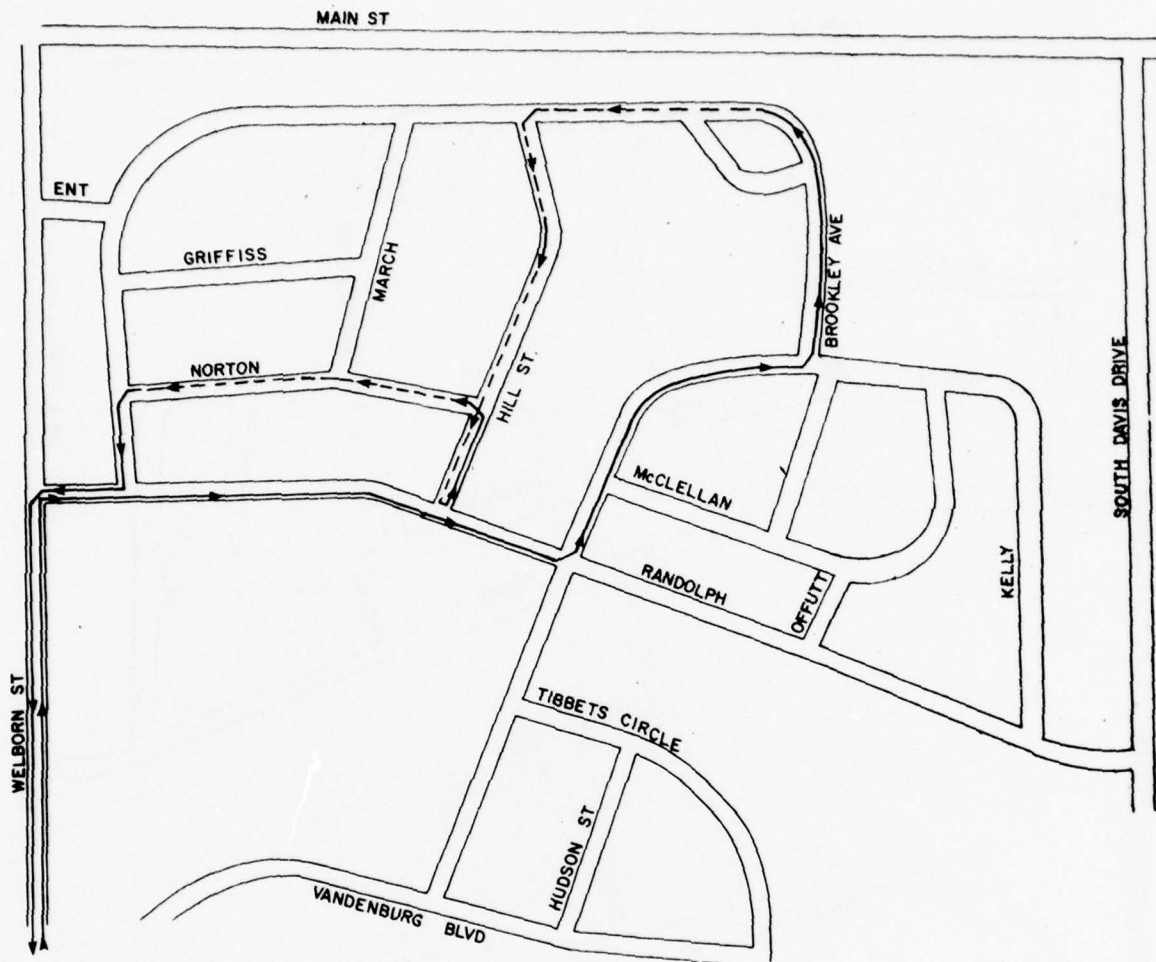
ROBINS AFB , GA.  
(ORIGINAL ROUTES)

ROUTE II TRIP 2  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB , GA.  
(ORIGINAL ROUTES)

ROUTE 12 TRIP 1  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB , GA.  
(ORIGINAL ROUTES)

ROUTE 12 TRIP 2  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB , GA.  
(ORIGINAL ROUTES)

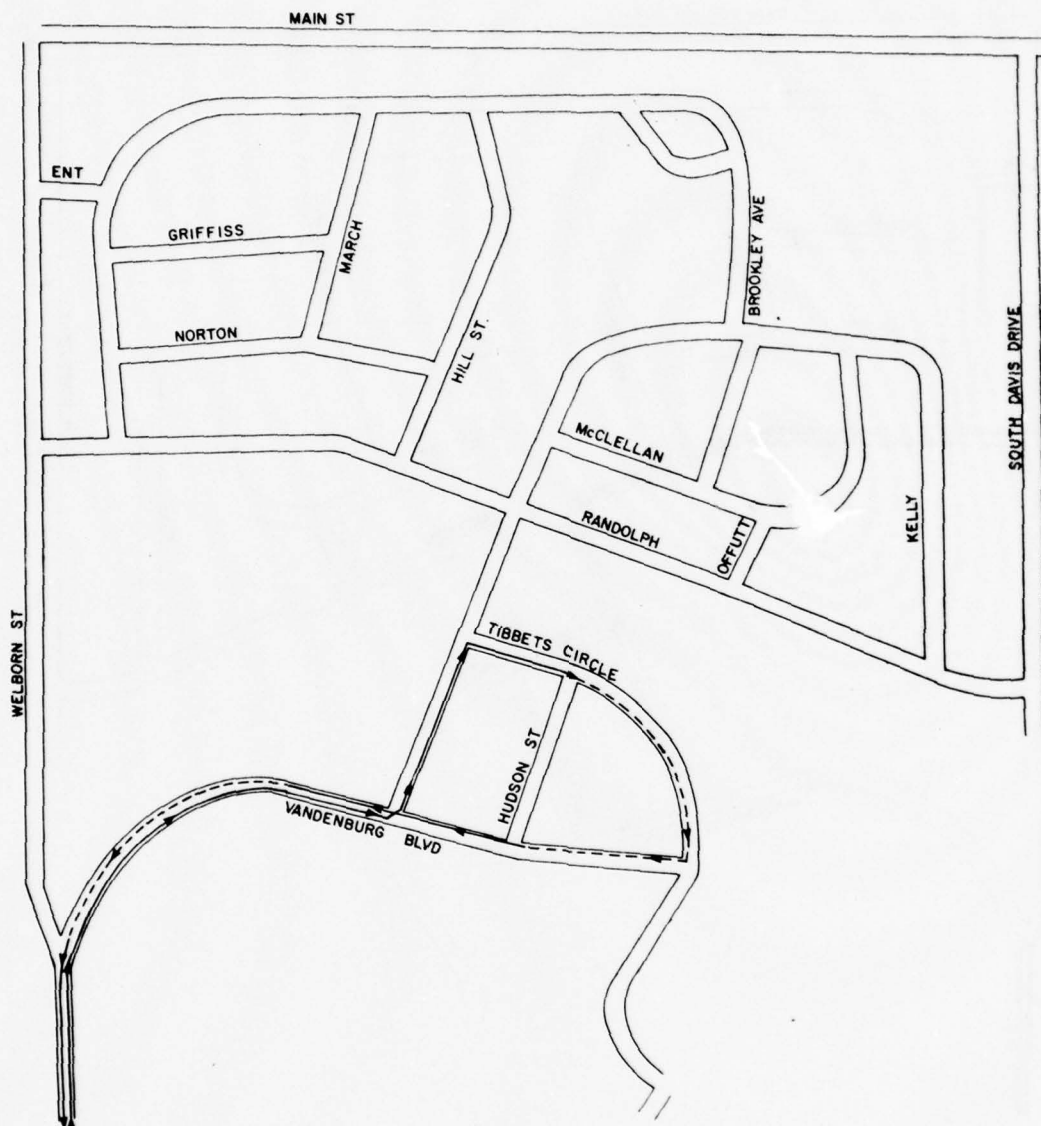
ROUTE 13 TRIP 1  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE





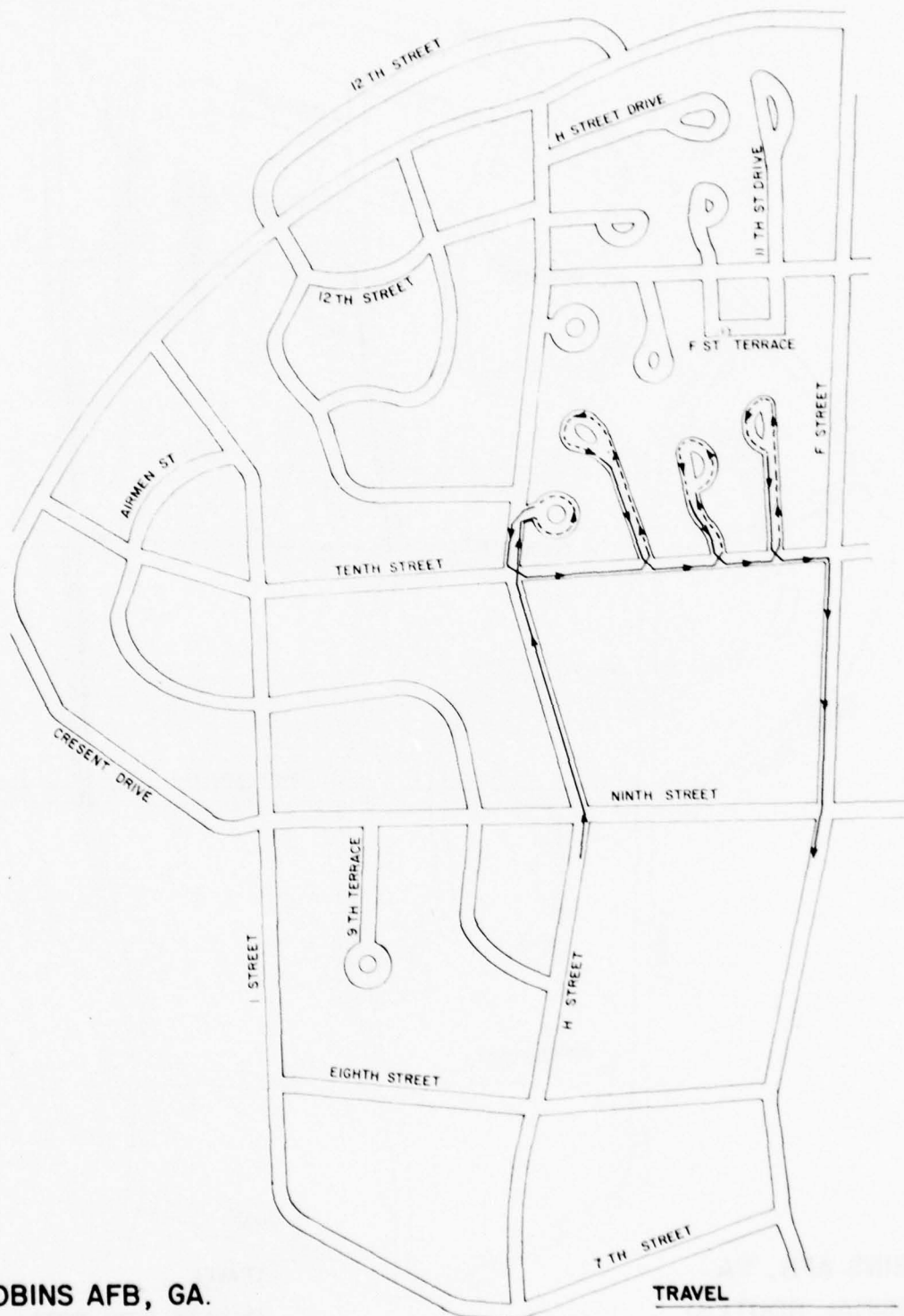
ROBINS AFB , GA.  
(ORIGINAL ROUTES)

ROUTE 13 TRIP 2  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 14 TRIP 1  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB, GA.  
(ORIGINAL ROUTES)

ROUTE 14 TRIP 2  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE

APPENDIX C

RCINPT DATA

ROBINS AFB, GEORGIA

1	ROAD TO LAND FILL
2	SECOND STREET
3	F-STREET
4	FOURTH STREET
5	OFFICER CIRCLE
6	DOGWOOD DR.
7	FIFTH STREET
8	HOLLEY DRIVE
9	EIGHTH STREET
10	NINTH STREET
11	TENTH STREET
12	ELEVENTH STREET
13	H STREET DRIVE
14	CRESENT DRIVE
15	12TH STREET
16	H STREET
17	ELEVENTH TERRACE
18	ELEVENTH STREET
19	I STREET
20	AIRMAN STREET
21	9TH TERRACE
22	7TH STREET
23	10TH STREET DRIVE
24	10TH STREET COURT
25	10TH STREET CIRCLE
26	H STREET COURT
27	H STREET CIRCLE
28	11TH STREET CIRCLE
29	11TH STREET TERRACE
30	F STREET TERRACE
31	11TH STREET DRIVE
32	H STREET TERRACE
33	CLUB DRIVE
34	5TH TERRACE
35	E STREET
36	E STREET
37	6TH STREET
38	PINE STREET



39	OAK STREET
40	LAKESIDE DRIVE
41	LAKESIDE CIRCLE
42	CHERRY DRIVE COURT
43	CHERRY DRIVE CIRCLE
44	CHERRY DRIVE TERRACE
45	C CIRCLE
46	CANNON ROAD
47	GILES AVENUE
48	BAKER DRIVE
49	VANDENBURG BLVD
50	NORSTAD CIRCLE
51	WHITEHEAD CIRCLE
52	ROBINS DRIVE
53	SECOND AVE.
54	FIRST AVE.
55	SOUTH DAVIS DRIVE
56	WARNER DRIVE
57	DOVER DRIVE
58	HUOSON STREET
59	TIBBETS CIRCLE
60	RANDOLPH
61	OFFUTT
62	KELLY
63	MC CLELLAN
64	OLMSTAD STREET
65	BROOKLEY AVE.
66	BROOKLEY COURT
67	HILL STREET
68	NORTON
69	MARCH STREET
70	GRIFFISS
71	ENT
72	ROBINS DRIVE
73	WATSON
74	MYRTLE ST.
75	MOBILE HOME COURT ENTRANCE
76	MOBILE HOME COURT ENTRANCE
77	
78	

79	DUKE STREET					
80	GEORGIA HWY.					
81	WELBORN STREET					
82	MAIN STREET					
83	PAGE RD					
84	MAIN ST					
85	THIRD ST					
86						
87	R STREET					
88						
7/8/9	(END OF RECORD)					
0.	12.	15.	0.	16.	20.	10.
0.	12.	30.	0.	12.	30.	10.
0.	12.	30.	12.	16.	10.	10.
7/8/9	(END OF RECORD)					
.1	400.	2.5				
1	10 14 0.0 15/25 (2.50,9.45) LS (2.17,9.01)					
88	20 11 0.0 15/25 (1.82,8.78) RC					
88	11 8 0.0 15/25 (2.16,9.33)					
2	20 2 0.0 30 / 25 (.) (1.82,8.66)					
2	1370 9 0.0 1380 96 0.0 30 / 25 (1.72,4.45)					
3	30 27 0.0 40 / 25 (.) (2.9,8.65)					
3	40 11 0.0 50 / 25 (.) (2.9,9.1)					
3	50 27 0.0 60 / 25 (.) L11 (3.95,9.20)					
3	60 24 0.0 140 / (.) (4.9,9.2)					
7	140 21 0.0 150 / 25 (.) (4.94,10.05)					
3	150 21 0.0 160 / 25 (.) (5.34,10.72)					
3	160 60 0.0 170 / 25 (.) LS (7.7,10.85)					
3	180 11 0.0 170/(8.13,10.88)					
3	180 25 0.0 190 22.5 0.0 200 25 0.0 210 22 0.0 220/25 (.) R25 (11.88,10.5)					
83	1381 18 0.0 1380/25 (2.44,4.80)					
83	1039 23 0.0 1040 62 0.0 1381/25 (5.71,5.72)					
83	1041 12 0.0 1039/25 (6.19,5.78)					
83	982 18 0.0 981 39 0.0 1041/25 (8.02,7.15)					
83	991 5 0.0 982/25 (8.13,7.30)					
83	992 17 0.0 991/25 (8.68,7.67) RC					
83	993 11 0.0 992/25 (9.09,7.81)					
83	994 26 0.0 993/25 (10.11,7.76)					

83 995 19 0.0 994/25 (10.88,7.80)  
10 191 12 0.0 993/25 (9.03,8.3)  
10 190 61 0.0 191/25 (,)  
11 201 7 0.0 202 9 0.0 994/25 (10.04,8.39) R7  
11 200 56 0.0 201/25 (,)  
12 211 16 0.0 995/25 (10.92,8.42)  
12 210 53 0.0 211/25 (,)  
7 1050 27 0.0 1052 6 0.0 1040 48 0.0 1020 16 0.0 1702 10 0.0 1700 18 0.0 140/ +  
25 (4.84,4.13)  
80 1360 40 0.0 1370 17 0.0 1371 63 0.0 1052/25 (0.18,4.05)  
79 1351 34 0.0 1360/25 (0.2,2.68)  
79 1350 8 0.0 1351/25 (0.26,2.37) LC  
79 1881 10 0.0 1350/25 (0.48,2.05) LC  
79 1880 6 0.0 1881/25 (0.68,2.01) LC  
75 1322 7 0.0 1321 21 0.0 1371/25 (2.71,3.52)  
75 1312 7 0.0 1320 30 0.0 1322/25 (2.65,2.02)  
75 1311 19 0.0 1310 21 0.0 1312/25 (2.97,0.44)  
76 1320 35 0.0 1330 25 0.0 1350/25 (,)  
56 1732 50 0.0 1500 56 0.0 1230 12 0.0 1240 11 0.0 1270 20 0.0 1311/25 +  
(8.92,0.36)  
84 1711 75 0.0 1732/25 (9.0,3.38)  
81 1723 34 0.0 1640 20 0.0 1712 12 0.0 1711/25 (6.32,3.40)  
85 1321 27 0.0 1060 18 0.0 1051 11 0.0 1050/25 (, ) L45  
85 1100 9 0.0 1080 9 0.0 1050/ (5.56,4.10)  
53 1291 8 0.0 1300 16 6.0 1190 22 12.0 1180 18 3.0 1060/ (3.73,1.42)  
53 1290 7 0.0 1291/ (3.58,1.2) RC  
53 1290 18 0.0 1310/ (,)  
50 1722 7 0.0 1723/ (6.08,3.32)  
50 1070 9 6.4 1090 8 3.2 1110 13 0.0 1722/ (4.84,3.31)  
50 1141 3 1.2 1070/ (4.74,3.27) LC  
50 1180 7 0.5 1170 9 1.5 1140 10 2.7 1141/ (,)  
47 1070 20 12.6 1050/ (,)  
48 1090 20 5.4 1080/ (,)  
49 1110 19 12.11 1100/ (,)  
47 1120 10 6.6 1141/ (4.62,2.88) LC  
47 1230 8 6.4 1220 24 15.12 1210 29 0.0 1120/ (,)  
57 1300 5 0.2 1301 7 1.2 1200 11 4.1 1210/ (,)  
57 1400 27 8.0 1210/ (5.68,1.54) R8  
55 1280 7 0.0 1290/ (3.71,0.96) R5

55 1280 6 4.2 1260 7 4.2 1270/(.)  
54 1191 9 6.3 1190/(4.08,2.27)  
54 1192 5 3.4 1191/(4.19,2.11) RC  
54 1192 10 5.5 1200/(.) LC  
54 1200 24 14.14 1250 8 4.4 1240/(.)  
58 1260 12 6.6 1250 12 4.6 1220/(.)  
86 1280 8 0.0 1281 14 0.0 1301/(.) R8  
51 1121 8 3.5 1120/(4.92,2.82) LC  
51 1121 16 10.11 1130 6 5.4 1110/(.) R16  
52 1150 14 10.7 1140/(4.34,2.7)  
52 1170 16 10.8 1160 9 8.4 1150/(.) R16  
61 1621 16 6.7 1630 6 1.3 1640/(7.71,2.50)  
61 1490 17 8.10 1480 17 6.10 1470 9 0.2 1620 5 3.4 1621/(6.97,0.70)  
61 1500 8 2.4 1490/(.) LC  
50 1452 20 4.4 1722/(6.62,2.80) RC  
50 1451 4 3.2 1452/(6.62,2.65) RC  
50 1440 09 3.6 1450 8 4.5 1451/(6.42,2.00) LS  
50 1420 13 5.8 1440/(6.36,1.47)  
60 1410 9 0.0 1400/(5.98,1.69) RC  
60 1410 11 0.0 1420/(.) RC  
60 1430 19 8.14 1420/(6.98,1.81) LC  
60 1450 15 7.8 1460 11 0.0 1470/(.)  
60 1430 8 4.2 1460/(.)  
59 1440 14 6.7 1430/(.)  
63 1510 25 12.14 1490/(7.97,0.68) LS  
66 1551 7 6.4 1550 6 4.2 1470/(7.97,1.77)  
66 1560 11 6.6 1551/(8.04,1.34) RC  
66 1510 7 4.0 1520 8 4.2 1570 2 0.0 1560/(.)  
64 1530 5 2.2 1540 12 4.4 1550/(7.46,1.23)  
64 1521 10 4.4 1530/(7.65,0.93) LC  
64 1521 8 6.4 1520/(.)  
62 1480 6 2.2 1530/(.)  
65 1570 13 4.4 1540/(.)  
67 1660 8 4.1 1650 7 2.1 1630/(8.30,3.18)  
67 1695 10 4.4 2000 5 2.1 1660/(8.77,2.89) RC  
67 1590 4 2.0 1591 11 4.2 1600 8 4.2 1690 13 8.5 1695/(8.76,1.49)  
67 1580 7 3.0 1590/(8.59,1.31) RC  
67 1560 14 2.1 1580/(.) RC  
68 1581 5 1.0 1580/(8.56,1.50) RC

68 1581 6 0.3 1591/(.) LC  
69 1620 8 4.1 1610 22 11.10 1600/(.) R21  
70 1650 14.5 6.6 1680 10 3.3 1610/(.) L14.5  
71 1680 8 3.3 1670 11 5.5 1690  
72 1660 18 6.7 1670/(.)  
77 1890 4 2.1 1340 5 1.0 1330/ ... .5 (1.27.2)  
78 1870 4 0.0 1880/(0.70.2.17) RC  
78 1870 15 3.3 1340/ ... .5 (.) LC  
78 1880 15 5.4 1890/ ... .5 (.) RC  
46 1030 1 0.0 1020/(4.93.7.42)  
46 1850 18 0.6 1030/(5.31.7.41) RC  
46 1850 18 4.0 1030/(.) LC  
35 1720 5 0.0 1702/(5.08.8.10) LC  
35 830 11 0.0 965 7 0.0 1720/(5.71.8.42) RS  
35 740 19 0.0 830/(6.43.8.38) RC  
35 191 21.5 0.0 820 44 0.0 740/(.) LC  
35 201 25 0.0 191/(.)  
35 211 22 0.0 201/(.)  
40 750 15 6.0 740/(6.63.8.95)  
40 760 7 4.2 750/(6.73.9.19) RC  
40 770 19 6.5 760/(7.35.9.54) RC  
40 800 16 7.5 770/(7.30.9.07) RC  
40 800 15 5.6 760/(.) LC  
41 790 2 0.1 780 13 4.3 770/(7.44.10.07) R2  
42 860 4 0.0 840 10 0.0 750/(7.18.8.88) LC  
42 820 19 0.0 881 7 0.0 880 6 0.0 860/(.) R19  
43 900 9 6.0 850 3 2.2 840/(6.78.8.43)  
43 901 3 2.0 900/(6.70.8.51) RC  
43 901 9 0.4 850/(.) LC  
44 910 5 4.0 870 6 2.2 860/(7.18.8.45) RC  
44 910 6 0.4 870/(.) LC  
45 921 6 0.6 890 6 2.2 880/(7.43.8.30) LS  
45 920 3 2.0 921/(7.58.8.40) LC  
45 920 7 4.0 890/(.) RC  
37 940 5.5 0.1 930 3 0.0 740/(6.39.8.06) L5.5  
36 970 6 2.2 960 9 0.0 965/(5.94.8.19)  
36 970 12 2.2 930/(.) LC  
37 950 9 3.2 940/(6.31.7.72) RC  
37 1000 9 5.4 950/(6.04.7.50) RC



37 1000 21 4.0 960/(.) LC  
38 950 16 3.3 970/(.)  
38 951 17 6.5 950/(6.91,7.46) RS  
38 980 20 7.7 951/(7.47,6.50) LS  
39 941 17 0.4 940/(6.97,7.77) LS  
39 1010 6 0.4 941/(7.18,7.64)  
39 1011 11 0.4 1010/(7.47,7.34)  
39 990 11 0.4 1011/(7.87,7.21) RS  
87 1012 4 0.0 990/(8.01,7.30)  
87 990 13 0.0 980/(.)  
87 1012 4 0.0 991/(.) LC  
87 980 6 0.0 981/(.) RC  
33 1701 17 0.2 1710 0.0 1700/(5.65,9.10)  
34 1720 14 4.2 1710 /(.) R12  
7 120 10 0.0 150/(4.68,10.39) LS  
7 100 12 0.1 120/(4.32,10.68) LC  
5 101 5 0.0 100/(4.13,10.68) LC  
5 102 7 2.1 101/(4.03,10.89) RC  
5 105 11 3.2 102/(4.21,11.29) LC  
5 106 5 2.1 105/(4.37,11.39) RC  
5 110 5 1.0 106/(4.56,11.36)  
5 120 28 0.3 110/(.) RC  
5 125 15 0.3 120/(4.42,9.86) LC  
5 130 8 0.1 125/(4.25,9.57) RC  
5 70 10 3.1 130/(3.97,9.30) RC  
5 71 10 2.1 70/(3.63,9.50) RC  
5 80 6 1.0 71/(3.69,9.74) LS  
5 90 20 3.5 80/(4.02,10.37) RC  
5 90 21 3.3 80/(.) LC  
5 100 11 3.1 90/(.) LC  
8 100 18 4.4 110/(.) RC  
14 240 8 0.0 230 21 0.0 220/(11.61,11.60) L17  
14 371 12 4.6 240/(11.48,12.09) LS  
14 410 17 4.0 360 15 1.4 370 13 0.6 371/(10.27,13.39) LC  
14 411 10 4.0 410/(9.90,13.52) LC  
14 420 10 4.0 411/(9.52,13.35) LC  
14 320 22 5.0 420/(9.12,12.62) L4  
10 190 21 0.0 280 9 2.2 530 9 2.2 550 9 2.2 320/(.,.  
22 300 24 0.0 170/(7.38,11.78)

22 312 20 0.0 300/(7.69,12.50) R15  
 22 311 6 0.0 312/(7.88,12.61) RC  
 19 311 8 0.0 310 23 8.0 320/(,) L21  
 19 320 10 2.2 330 10 2.1 340 12 4.2 350 13 4.2 360/(,) R30  
 16 290 18 0.0 300/(8.09,11.71) RC  
 16 270 22 6.0 280 15 3.0 500 11 2.0 290/(9.96,11.74) L24  
 16 270 5 0.0 491 2 0.0 480 15 0.4 470 4 0.2 260/(,) (10.99,11.60)  
 16 260 5 0.2 450 1 0.0 250 4 0.2 430 5 0.0 240/(,) L21  
 9 180 21 0.0 290 23 8.8 310/(,) L21  
 11 200 5 0.0 570 5 0.0 590 6 0.0 620 12 0.0 270 22 6.8 340/(,) L11  
 22 340 11 2.3 1900 10 2.2 410/(,) L11  
 12 210 6 0.0 720 6 0.0 700 6 0.0 670 9 0.2 260/(,) L5  
 4 60 3 0.0 70/(,) RC  
 21 560 11 3.3 550/(8.67,12.28) LC  
 21 1860 4 0.1 560/(8.54,12.30) RC  
 21 1860 5 3.0 560/(,) RC  
 20 540 10 4.1 500/(8.75,11.93) RC  
 20 530 9 4.2 540/(,) RC  
 20 503 6 0.2 530/(9.37,11.93) LC  
 20 520 9 2.4 503/(9.57,12.18) LC  
 20 330 11 4.4 520/(,) RC  
 20 1902 8 2.2 330/(9.58,12.94) RC  
 20 1901 9 4.1 1902/(9.87,13.12) RC  
 20 1900 5 2.2 1901/(,) RC  
 20 350 14 4.2 1900/(,) RC  
 15 381 9 2.2 250/(11.13,11.98) RC  
 15 382 2 0.0 381/(11.10,12.02) RC  
 15 380 11 0.2 382/(11.02,12.43) RC  
 15 380 5 0.0 370/(,) RC  
 15 1950 7 0.0 370/(11.43,12.52) RC  
 15 1940 27 0.0 1950/(11.84,11.56) RC  
 15 230 8 0.0 1940/(,) RC  
 18 492 12 6.4 480/(10.25,12.19) LC  
 18 493 5 2.2 492/(10.35,12.34) RC  
 18 511 5 4.2 510 5 2.0 493/(10.70,12.52) L5  
 18 512 4 2.0 511/(10.85,12.53) RC  
 18 380 5 2.1 512/(,) RC  
 17 514 11 2.2 381/(10.70,11.97) RC  
 17 513 6 4.2 514/(10.59,12.14) RC

17 510 7 2.2 513/(.) LC  
17 381 9 2.0 371/(.)  
26 650 2 0.0 491/(10.18,11.63)  
26 1840 4 0.2 650/(10.13,11.53) LC  
26 1840 5 4.0 650/(.) RC  
27 660 2 0.0 470/(10.82,11.55)  
27 1820 4 0.2 660/(10.80,11.46) LC  
27 1820 5 2.0 660/(.) RC  
32 460 3 2.0 465 6 4.2 450/(11.20,11.26)  
32 465 6 4.0 460/(.) RC  
13 440 3 4.0 445 11 6.6 430/(11.58,11.06)  
13 441 3 2.0 440/(11.49,11.04) RC  
13 445 4 2.0 441/(.) R3  
23 1830 4 0.4 580 10 4.4 570/(10.54,10.82)  
23 1830 6 6.0 580/(.) RC  
24 600 4 2.0 610 7 2.2 590/(10.40,11.12) RS  
24 600 6 6.0 610/(.) LC  
25 631 2 0.2 630 10 4.4 620/(10.43,11.40)  
25 640 4 0.4 631/(10.50,11.53) LC  
25 640 6 4.0 630/(.) R2  
28 690 5 0.4 680 5 2.2 670/(10.62,11.23) R2  
28 690 5 4.0 680/(.) L2  
30 700 16 10.4 720/(.) RR  
29 1800 2 2.0 710 5 2.2 700/(11.27,11.04) RS  
29 1800 5 0.4 710/(.) LC  
31 730 11 6.6 720/(11.42,10.78)  
31 1810 6 4.0 730/(11.65,10.86) RC  
31 1810 7 6.0 730/(.) LC  
73 2000 4 0.0 1712  
76 1320 26 0.0 1190 / 25  
7/8/9 (END OF RECORD)  
7/8/9 (END OF RECORD)

APPENDIX D

PHASE3 DATA

ROBINS AFB. GA

10	11
335	3
322	4
323	4
297	4
263	5
251	2
252	2
349	6
318	1
319	1
306	2
273	3
290	6
274	6
184	7
187	7
188	7
201	6
202	6
216	10
217	10
218	10
219	10
215	8
205	8
137	14
141	13
143	13
151	12
119	13
80	23
114	21
83	22
84	22
89	20



APPENDIX E

PHASE4 DATA FOR ORIGINAL ROUTES

1. 5.

71819

7/8/9 (END OF RECORD)

6T 1380 5T 1370 43T 1360 46T 1351 47T





[illegible]



17	3T	15	14	70.00	30	7T	40	8T	50	9T	60	10T	140	42T		
11	41T	1702	174T	1720	20	4T	965	175T	830	177T	740	182T	750	190T	840	189T
1700	193T	880														
860			14	70.00	920	204C	890	202T	880	192T	881	191T	820	178T		
22	202C	890	201C	921	203C											
880																
191	31T	190	15T	180	278T	290	279C	310	261C	320	256C	550	292C	560	293C	
1860	294C	560	292T	550	255C	530	254C	280	268C	500	269C	290				
12			14	70.00	160	12T	150	11T	140	10T	60	9T	50	8T		
290	278T	180	14T	170	13T	15	1T	10								
40	7T	30	4T	20	2T	15										
13			15	70.00	30	7T	40	8T	50	9T	60	10T	140	11T		
11	3T	15	2T	20	4T	180	278T	290	269T	500						
150	12T	160	13T	170	14T	180										
14			15	70.00	503	298C	520	299C	330	300C	1902	301C	1901	302C		
500	295C	540	296C	530	297C	420	252C	320	262C	330	263C	340				
1900	286T	410	250C	411	251C	500	269T	290	278T	180	14T	170	13T	160	12T	
16			15	70.00	500	268T	50	8T	40	7T	30	4T	20	2T	15	1T
340	284T	270	267T	280	268T	60	9T									
150	11T	140	10T	60	9T											
10																
14			16	70.00	30	7T	40	8T	50	9T	60	10T	140	11T		
11	3T	15	2T	20	4T	180	278T	290	269T	500	268T	280				
150	12T	160	13T	170	14T	1900	285C	410	247C	360	265C	350	264C	340	285T	
9			16	70.00	620	282T	590	281T	570	280T	200	16T	190	15T		
280	267C	270	284C	340	285C	150	11T	140	10T	60	9T	50	8T	40	7T	
1900	303C	350				10										
19			16	70.00	620	282T	590	281T	570	280T	200	16T	190	15T		
350	264T	340	284T	270	283T	150	11T	140	10T	60	9T	50	8T	40	7T	
180	14T	170	13T	160	12T	15	1T									
30	4T	20	2T	15	1T											
17			17	70.00	30	7T	40	8T	50	9T	60	10T	140	11T		
11	3T	15	2T	20	4T	180	278T	290	269T	500	268T	280	267T	270	270T	
150	12T	160	13T	170	14T	180										
491	271T	480														
23			17	70.00	510	313C	511	315C	512	316C	380	306C	382	305T		
480	311C	492	312C	493	314C	514	318C	513	319C	510	313T	511	315T	512	316T	
381	320C	371	320T	381	317C	250	275T	450	274C	260	273C	470	272C	480		
380	305T	382	305T	381	304C											

17	271T	491	270T	17	70.00	270	267T	280	268T	500	269T	290	276T	180	14T	170	13T
480	12T	150	11T			140	10T	60	9T	50	8T	40	7T	30	4T	20	2T
15	1T	10															
18				18	70.00	20	4T	30	7T	40	8T	50	9T	60	10T	140	11T
11	3T	15	2T			170	14T	180	278T	290	279T	310	261T	320	262T	330	263T
150	12T	160	13T			360											
340	264T	350	265T														
14				18	70.00	371	246C	240	277T	430	331C	445	333C	441	332C	440	330C
360	248C	370	249C			250	275T	450	328C	465	329C	460	327C	465			
445	331T	430	276C														
21				18	70.00	260	273T	470	272T	480	271T	491	270T	270	267T	280	268T
465	328T	450	274T			180	14T	170	13T	160	12T	150	11T	140	10T	60	9T
500	269T	290	278T			30	4T	20	2T	15	1T	10					
50	8T	40	7T														
14				19	70.00	20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
11	3T	15	2T			1090	80T	1110	81T	1722	78T	1723	64T	1640			
1050	86T	1070	79T														
6				19	70.00	1621	120C	1620	119C	1470	118C	1480	117C	1490			
1640	116C	1630	115C														
20				19	70.00	1470	119T	1620	120T	1621	115T	1630	116T	1640	64T	1723	78T
1490	117T	1480	118T			1090	79T	1070	86T	1050	37T	1052	38T	1040	21T	1381	19T
1722	81T	1110	80T			20	2T	15	1T	10							
1380	6T	30	4T														
21				20	70.00	1470	118T	1480	117T	1490	121T	1500					
11	3T	15	2T			1510	138C	1520	144C	1521	143C	1530	145C	1480	38T	1052	37T
1050	86T	1070	79T														
1621	120T	1620	119T			1620	120T	1621	115T	1630	116T	1640	64T	1723	78T	1722	81T
6				20	70.00	1070	86T	1050	37T	1052	38T	1040	21T	1381	19T	1380	6T
1500	121C	1490	134C			15	1T	10									
19				20	70.00												
1480	118T	1470	119T			1621	120T	1621	115T	1630	116T	1640	64T	1723	78T	1722	81T
1110	80T	1090	79T			1070	86T	1050	37T	1052	38T	1040	21T	1381	19T	1380	6T
30	4T	20	2T			15	1T	10									
18				21	70.00												
11	3T	15	2T			20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
1050	86T	1070	79T			1090	80T	1110	81T	1722	78T	1723	64T	1640	116T	1630	115T
1621	120T	1620	119T			1470	118T	1480	117T	1490	121T	1500					
15				21	70.00	1510	138C	1520	144C	1521	143C	1530	145C	1480			
				21	70.00	1620	120T	1621	115T	1630	116T	1640	64T	1723	78T	1722	81T
				21	70.00	1070	86T	1050	37T	1052	38T	1040	21T	1381	19T	1380	6T
				21	70.00	15	1T	10									
				21	70.00												
				21	70.00	20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
				21	70.00	1090	80T	1110	81T	1722	78T	1723	64T	1640	116T	1630	115T
				21	70.00	1470	118T	1480	117T	1490	121T	1500					
				21	70.00	1510	138C	1520	144C	1521	143C	1530	145C	1480			
				21	70.00	1620	120T	1621	115T	1630	116T	1640	64T	1723	78T	1722	81T
				21	70.00	1070	86T	1050	37T	1052	38T	1040	21T	1381	19T	1380	6T
				21	70.00	15	1T	10									
				21	70.00												
				21	70.00	20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
				21	70.00	1090	80T	1110	81T	1722	78T	1723	64T	1640	116T	1630	115T
				21	70.00	1470	118T	1480	117T	1490	121T	1500					
				21	70.00	1510	138C	1520	144C	1521	143C	1530	145C	1480			
				21	70.00	1620	120T	1621	115T	1630	116T	1640	64T	1723	78T	1722	81T
				21	70.00	1070	86T	1050	37T	1052	38T	1040	21T	1381	19T	1380	6T
				21	70.00	15	1T	10									
				21	70.00												
				21	70.00	20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
				21	70.00	1090	80T	1110	81T	1722	78T	1723	64T	1640	116T	1630	115T
				21	70.00	1470	118T	1480	117T	1490	121T	1500					
				21	70.00	1510	138C	1520	144C	1521	143C	1530	145C	1480			
				21	70.00	1620	120T	1621	115T	1630	116T	1640	64T	1723	78T	1722	81T
				21	70.00	1070	86T	1050	37T	1052	38T	1040	21T	1381	19T	1380	6T
				21	70.00	15	1T	10									
				21	70.00												
				21	70.00	20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
				21	70.00	1090	80T	1110	81T	1722	78T	1723	64T	1640	116T	1630	115T
				21	70.00	1470	118T	1480	117T	1490	121T	1500					
				21	70.00	1510	138C	1520	144C	1521	143C	1530	145C	1480			
				21	70.00	1620	120T	1621	115T	1630	116T	1640	64T	1723	78T	1722	81T
				21	70.00	1070	86T	1050	37T	1052	38T	1040	21T	1381	19T	1380	6T
				21	70.00	15	1T	10									
				21	70.00												
				21	70.00	20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
				21	70.00	1090	80T	1110	81T	1722	78T	1723	64T	1640	116T	1630	115T
				21	70.00	1470	118T	1480	117T	1490	121T	1500					
				21	70.00	1510	138C	1520	144C	1521	143C	1530	145C	1480			
				21	70.00	1620	120T	1621	115T	1630	116T	1640	64T	1723	78T	1722	81T
				21	70.00	1070	86T	1050	37T	1052	38T	1040	21T	1381	19T	1380	6T
				21	70.00	15	1T	10									
				21	70.00												
				21	70.00	20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
				21	70.00	1090	80T	1110	81T	1722	78T	1723	64T	1640	116T	1630	115T
				21	70.00	1470	118T	1480	117T	1490	121T	1500					
				21	70.00	1510	138C	1520	144C	1521	143C	1530	145C	1480			
				21	70.00	1620	120T	1621	115T	1630	116T	1640	64T	1723	78T	1722	81T
				21	70.00	1070	86T	1050	37T	1052	38T	1040	21T	1381	19T	1380	6T
				21	70.00	15	1T	10									
				21	70.00												
				21	70.00	20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
				21	70.00	1090	80T	1110	81T	1722	78T	1723	64T	1640	116T	1630	115T
				21	70.00	1470	118T	1480	117T	1490	121T	1500					
				21	70.00	1510	138C	1520	144C	1521	143C	1530	145C	1480			
				21	70.00	1620	120T	1621	115T	1630	116T	1640	64T	1723	78T	1722	81T
				21	70.00	1070	86T	1050	37T	1052	38T	1040	21T	1381	19T	1380	6T
				21	70.00	15	1T	10									
				21	70.00												
				21	70.00	20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
				21	7												

1470	136C	1550	135C	1551	137C	1560	140T	1570	139C	1520	139T	1570	146C	1540	141C
1530	141T	1540	142C	1550	135T	1551	137T	1560	156C	1580	157C	1581	158C	1591	
22			21	70.00											
1591	152T	1600	153T	1690	154T	1695	149T	2000	150T	1660	147T	1650	148T	1630	116T
1640	64T	1723	78T	1722	81T	1110	80T	1090	79T	1070	86T	1050	37T	1052	38T
1040	21T	1381	19T	1380	6T	30	4T	20	2T	15	1T	10			
22			22	70.00											
11	3T	15	2T	20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
1050	86T	1070	79T	1090	80T	1110	81T	1722	78T	1723	64T	1640	116T	1630	115T
1e21	120T	1620	119T	1470	136T	1550	135T	1551	137T	1560	156T	1580			
8			22	70.00											
1580	155C	1590	151C	1591	152C	1600	160C	1610	159C	1620	159T	1610	162C	1680	161C
1650															
16			22	70.00											
1650	148T	1630	116T	1640	64T	1723	78T	1722	81T	1110	80T	1090	79T	1070	86T
1050	37T	1052	38T	1040	21T	1381	19T	1380	6T	30	4T	20	2T	15	1T
10															
17			23	70.00											
11	3T	15	2T	20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
1050	86T	1070	79T	1090	80T	1110	81T	1722	78T	1723	64T	1640	116T	1630	148T
1650	147T	1660													
8			23	70.00											
1660	165C	1670	163C	1680	163T	1670	164C	1690	153C	1600	153T	1690	154C	1695	149C
2000															
16			23	70.00											
2000	354T	1712	65T	1640	64T	1723	78T	1722	81T	1110	80T	1090	79T	1070	86T
1050	37T	1052	38T	1040	21T	1381	19T	1380	6T	30	4T	20	2T	15	1T
10															
16			24	70.00											
11	3T	15	2T	20	4T	30	6T	1380	19T	1381	21T	1040	38T	1052	37T
1050	86T	1070	79T	1090	80T	1110	81T	1722	78T	1723	64T	1640	65T	1712	354T
2000															
11			24	70.00											
2000	150C	1660	147C	1650	148C	1630	115T	1621	120T	1620	119T	1470	131T	1460	132C
1430	133C	1440	124C	1450	130C	1460									
19			24	70.00											
1460	131T	1470	119T	1620	120T	1621	115T	1630	116T	1640	64T	1723	78T	1722	81T
1110	80T	1090	79T	1070	86T	1050	37T	1052	38T	1040	21T	1381	19T	1380	6T
30	4T	20	2T	15	1T	10									





APPENDIX F

PHASE4 DATA FOR RCSP ROUTES



1.	30.	53.	70.	7/8/9	14 CU YD VEHICLE	16 CU YD VEHICLE	(END OF RECORD)
5.				1	19.6	12.	
				1	29.6	12.	
				2	18.8	11.8	
				2	28.8	11.8	
				3	19.5	11.5	
				3	29.5	11.5	
				4	18.6	11.	
				4	28.6	11.	
				5	17.0	10.6	
				5	27.0	10.6	
				6	16.	8.4	
				6	26.	8.4	
				6	110.	12.	
				6	210.	12.	
				7	16.	8.4	
				7	26.	8.4	
				8	14.4	8.0	
				8	24.4	8.0	
				9	13.	6.	
				9	23.	6.	
				10	15.6	8.	
				10	25.6	8.	
				10	15.5	7.9	
				10	25.5	7.9	
				11	16.6	9.	
				11	26.6	9.	
				12	16.6	9.	
				12	26.6	9.	
				13	16.6	9.	
				13	26.6	9.	
				14	16.6	9.	
				14	26.6	9.	

[illegible]





480	2720	470	2730	260	290T	670	3450	680	3440	690	3460	680	345T	670	290T
260	273T	470	324T	660	3260	1820	3250	660	324T	470	272T	480	271T	491	270T
270	283T	620	3410	630	3400	631	3420	640	3430	630	341T	620	282T	590	3380
610	3370	600	3390	610	338T	590	281T	570	3350	580	3360	1830	3340	580	
15	2.208	3		70.000		70.000									
580	335T	570	280T	200	16T	190	15T	180	14T	170	13T	160	12T	150	11T
140	10T	60	9T	50	8T	40	7T	30	4T	20	2T	15	1T	10	
19	2.360	3		70.000		70.000									
10	1T	15	2T	20	4T	30	7T	40	8T	50	9T	60	10T	140	11T
150	12T	160	13T	170	14T	180	15T	190	16T	200	280T	570	281T	590	282T
620	283T	270	270T	491	271T	480									
31	1.477	3		70.000		70.000									
480	2720	470	2730	260	290T	670	3450	680	3440	690	3460	680	345T	670	290T
260	273T	470	324T	660	3260	1820	3250	660	324T	470	272T	480	271T	491	270T
270	283T	620	3410	630	3400	631	3420	640	3430	630	341T	620	282T	590	3380
610	3370	600	3390	610	338T	590	281T	570	3350	580	3360	1830	3340	580	
15	2.208	3		70.000		70.000									
580	335T	570	280T	200	16T	190	15T	180	14T	170	13T	160	12T	150	11T
140	10T	60	9T	50	8T	40	7T	30	4T	20	2T	15	1T	10	
13	2.038	4		70.000		66.000									
11	3T	15	2T	20	4T	30	7T	40	8T	50	9T	60	10T	140	11T
150	12T	160	13T	170	14T	180	15T	190	253T	280					
17	1.106	4		70.000		66.000									
280	2670	270	270T	491	321T	650	3220	1840	3230	650	321T	491	270T	270	2840
340	2850	1900	2860	410	286T	1900	3020	1901	3010	1902	3000	330	2990	520	2980
503	2970	530													
14	2.152	4		70.000		66.000									
530	254T	280	253T	190	15T	180	14T	170	13T	160	12T	150	11T	140	10T
60	9T	50	8T	40	7T	30	4T	20	2T	15	1T	10			
13	2.083	4		70.000		66.000									
10	1T	15	2T	20	4T	30	7T	40	8T	50	9T	60	10T	140	11T
150	12T	160	13T	170	14T	180	15T	190	253T	280					
17	1.106	4		70.000		66.000									
280	2670	270	270T	491	321T	650	3220	1840	3230	650	321T	491	270T	270	2840
340	2850	1900	2860	410	286T	1900	3020	1901	3010	1902	3000	330	2990	520	2980
503	2970	530													
14	2.152	4		70.000		66.000									
530	254T	280	253T	190	15T	180	14T	170	13T	160	12T	150	11T	140	10T
60	9T	50	8T	40	7T	30	4T	20	2T	15	1T	10			







191	31T	190	16T	200	17T	210	287T	720	351C	730	352C	1810	353C	730	351T
720	347C	700	349C	710	346C	1800	350C	710	349T	700	289T	670	290C	260	274C
450															
19	2.527	6		70.000		66.000									
450	274T	260	290T	670	289T	700	288T	720	287T	210	17T	200	16T	190	15T
180	14T	170	13T	160	12T	150	11T	140	10T	60	9T	50	8T	40	7T
30	4T	20	2T	15	1T	10									
17	1.530	7		70.000		70.000									
11	3T	15	2T	20	4T	30	7T	40	8T	50	9T	60	10T	140	42T
1700	41T	1702	174T	1720	176T	965	208T	960	207T	970	209T	930	206T	740	182T
750	183T	760													
18	1.098	7		70.000		70.000									
760	186C	800	185C	770	188C	780	187C	790	187T	780	188T	770	184C	760	183T
750	190T	840	195C	850	194C	900	196C	901	197C	850	195T	840	189T	860	199C
870	198C	910	200C	870											
19	1.674	7		70.000		70.000									
870	199T	860	189T	840	190T	750	182T	740	206T	930	209T	970	207T	960	208T
965	176T	1720	174T	1702	41T	1700	42T	140	10T	60	9T	50	8T	40	7T
30	4T	20	2T	15	1T	10									
17	1.576	7		70.000		70.000									
10	1T	15	2T	20	4T	30	7T	40	8T	50	9T	60	10T	140	42T
1700	41T	1702	174T	1720	176T	965	208T	960	207T	970	209T	930	206T	740	182T
750	183T	760													
18	1.098	7		70.000		70.000									
760	186C	800	185C	770	188C	780	187C	790	187T	780	188T	770	184C	760	183T
750	190T	840	195C	850	194C	900	196C	901	197C	850	195T	840	189T	860	199C
870	198C	910	200C	870											
19	1.674	7		70.000		70.000									
870	199T	860	189T	840	190T	750	182T	740	206T	930	209T	970	207T	960	208T
965	176T	1720	174T	1702	41T	1700	42T	140	10T	60	9T	50	8T	40	7T
30	4T	20	2T	15	1T	10									
12	1.205	8		70.000		70.000									
11	3T	15	2T	20	4T	30	7T	40	8T	50	9T	60	10T	140	42T
1700	41T	1702	174T	1720	176T	965	208T	960							
18	1.655	8		70.000		70.000									
960	212C	1000	211C	950	214C	951	215C	980	215T	951	214T	950	213C	970	209C
930	206T	740	182C	750	183C	760	183T	750	182T	740	206T	930	205C	940	210C
950	213T	970	207C	960											
12	1.250	8		70.000		70.000									

960	208T	965	176T	1720	174T	1702	41T	1700	42T	140	10T	60	9T	50	8T
40	7T	30	4T	20	2T	15	1T	10							
12	1.250	8		70.000		70.000									
10	1T	15	2T	20	4T	30	7T	40	8T	50	9T	60	10T	140	42T
1700	41T	1702	174T	1720	176T	965	208T	960							
18	1.655	8		70.000		70.000									
960	212C	1000	211C	950	214C	951	215C	980	215T	951	214T	950	213C	970	209C
930	206T	740	182C	750	183C	760	183T	750	182T	740	206T	930	205C	940	210C
950	213T	970	207C	960											
12	1.250	8		70.000		70.000									
960	208T	965	176T	1720	174T	1702	41T	1700	42T	140	10T	60	9T	50	8T
40	7T	30	4T	20	2T	15	1T	10							
7	.674	9		70.000		69.000									
11	3T	15	2T	20	4T	30	7T	40	8T	50	9T	60	291T	70	
32	3.015	9		70.000		69.000									
70	238C	71	239C	80	240C	90	242C	100	243C	110	233C	106	232C	105	231C
102	230C	101	229T	100	243T	110	234C	120	228C	100	242T	90	241C	80	239T
71	236T	70	237C	130	236C	125	235C	120	227T	150	11T	140	42T	1700	225T
1710	224C	1701	224T	1710	226C	1720	174T	1702	40T	1020	171T	1030	173C	1850	172C
1030															
11	1.220	9		70.000		69.000									
1030	171T	1020	40T	1702	41T	1700	42T	140	10T	60	9T	50	8T	40	7T
30	4T	20	2T	15	1T	10									
7	.720	9		70.000		69.000									
10	1T	15	2T	20	4T	30	7T	40	8T	50	9T	60	291T	70	
32	3.015	9		70.000		69.000									
70	238C	71	239C	80	240C	90	242C	100	243C	110	233C	106	232C	105	231C
102	230C	101	229T	100	243T	110	234C	120	228C	100	242T	90	241C	80	239T
71	238T	70	237C	130	236C	125	235C	120	227T	150	11T	140	42T	1700	225T
1710	224C	1701	224T	1710	226C	1720	174T	1702	40T	1020	171T	1030	173C	1850	172C
1030															
11	1.220	9		70.000		69.000									
1030	171T	1020	40T	1702	41T	1700	42T	140	10T	60	9T	50	8T	40	7T
30	4T	20	2T	15	1T	10									
15	1.383	10		70.000		66.000									
11	3T	15	2T	20	4T	30	7T	40	8T	50	9T	60	10T	140	42T
1700	41T	1702	174T	1720	176T	965	208T	960	207T	970	209T	930	205T	940	
28	2.833	10		70.000		66.000									
940	216C	941	217C	1010	218C	1011	219C	990	221T	980	223T	981	24T	1041	22T



[illegible]



AD-A055 716

NEW MEXICO UNIV ALBUQUERQUE ERIC H WANG CIVIL ENGINE--ETC F/6 13/2  
REFUSE-COLLECTION SCHEDULING FOR SELECTED LOCATIONS. VOLUME IV.--ETC(U)  
NOV 77 H J IUZZOLINO F29601-76-C-0015

UNCLASSIFIED

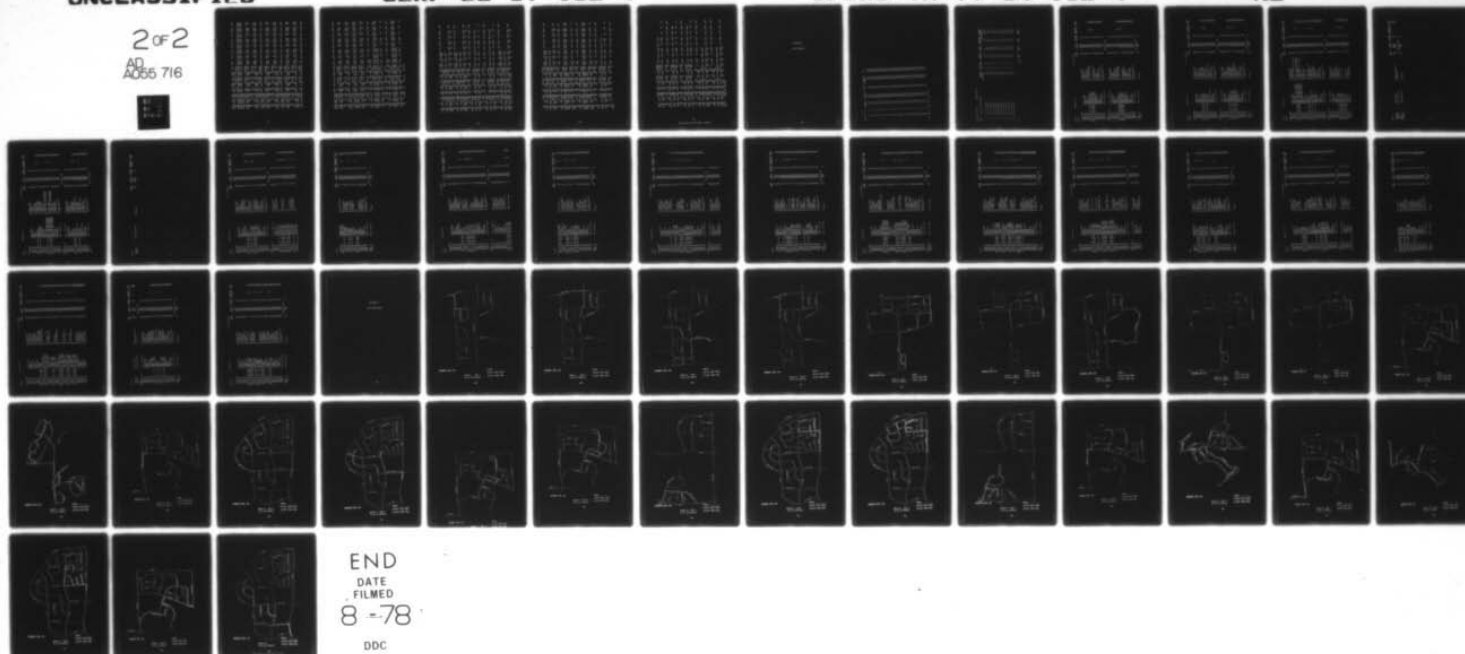
CERF-EE-17-VOL-4

CFEEO-TR-77-54-VOL-4

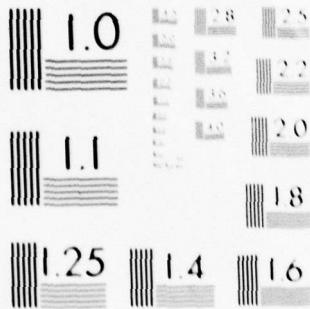
NL

2 of 2

AD  
A055 716







MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

11060	68T	1051	69T	1050	86T	1070	79T	1090	80T	1110	81T	1722	78T	1723	64T
11640	116T	1630	148T	1650	147T	1660									
25	1.636	13		70.000		68.000									
11660	165C	1670	163T	1680	162T	1610	159T	1620	119C	1470	136T	1550	142C	1540	141C
111530	143C	1521	144C	1520	139C	1570	149T	1560	156C	1580	155T	1590	151T	1591	158C
111581	157C	1580	156T	1560	140T	1570	146T	1540	141T	1530	145C	1480	118T	1470	131T
11460	132C	1430													
19	2.508	13		70.000		68.000									
11430	132T	1460	130T	1450	125T	1451	123T	1452	122T	1722	81T	1110	80T	1090	79T
11070	86T	1050	69T	1051	68T	1060	67T	1321	51T	1371	44T	1370	5T	1380	6T
30	4T	20	2T	15	1T	10									
19	2.485	14		70.000		66.000									
11	3T	15	2T	20	4T	30	6T	1380	5T	1370	44T	1371	51T	1321	67T
11060	68T	1051	69T	1050	86T	1070	79T	1090	80T	1110	81T	1722	122T	1452	123T
11451	125T	1450	130T	1460	131T	1470									
9	.758	14		70.000		66.000									
11470	118C	1480	117C	1490	134T	1510	138C	1520	139T	1570	140T	1560	137C	1551	135C
11550	136C	1470													
19	2.530	14		70.000		66.000									
11470	131T	1460	130T	1450	125T	1451	123T	1452	122T	1722	81T	1110	80T	1090	79T
11070	86T	1050	69T	1051	68T	1060	67T	1321	51T	1371	44T	1370	5T	1380	6T
30	4T	20	2T	15	1T	10									
19	2.530	14		70.000		66.000									
10	1T	15	2T	20	4T	30	6T	1380	5T	1370	44T	1371	51T	1321	67T
11060	62T	1051	69T	1050	86T	1070	79T	1090	80T	1110	81T	1722	122T	1452	123T
11451	125T	1450	130T	1460	131T	1470									
9	.758	14		70.000		66.000									
11470	118C	1480	117C	1490	134T	1510	138C	1520	139T	1570	140T	1560	137C	1551	135C
11550	136C	1470													
19	2.530	14		70.000		66.000									
11470	131T	1460	130T	1450	125T	1451	123T	1452	122T	1722	81T	1110	80T	1090	79T
11070	86T	1050	69T	1051	68T	1060	67T	1321	51T	1371	44T	1370	5T	1380	6T
30	4T	20	2T	15	1T	10									
19	2.530	14		70.000		66.000									
10	1T	15	2T	20	4T	30	6T	1380	5T	1370	44T	1371	51T	1321	67T
11060															



11	3T	15	2T	20	4T	30	6T	1380	5T	1370	44T	1371	51T	1321	50T
1322	53T	1320	355T	1190	100T	1191	101T	1192	102T	1200					
5	.765		17	53.000		50.000									
1200	95C	1210	96C	1400	96T	1210	91C	1220	106C	1250					
15	2.220		17	53.000		50.000									
1250	104T	1240	61T	1270	62T	1311	54T	1310	55T	1312	52T	1320	53T	1322	50T
1321	51T	1371	44T	1370	5T	1380	6T	30	4T	20	2T	15	1T	10	
13	1.947		17	53.000		50.000									
10	1T	15	2T	20	4T	30	6T	1380	5T	1370	44T	1371	51T	1321	50T
1322	53T	1320	355T	1190	100T	1191	101T	1192	102T	1200					
5	.765		17	53.000		50.000									
1200	95C	1210	96C	1400	96T	1210	91C	1220	106C	1250					
15	2.220		17	53.000		50.000									
1250	104T	1240	61T	1270	62T	1311	54T	1310	55T	1312	52T	1320	53T	1322	50T
1321	51T	1371	44T	1370	5T	1380	6T	30	4T	20	2T	15	1T	10	
9	1.583		18	53.000		49.000									
11	3T	15	2T	20	4T	30	6T	1380	5T	1370	44T	1371	51T	1321	67T
1060	75T	1180													
7	.561		18	53.000		49.000									
1180	74C	1190	73C	1300	93C	1301	94C	1200	102C	1192	101C	1191	100C	1190	
10	1.765		18	53.000		49.000									
1190	355T	1320	53T	1322	50T	1321	51T	1371	44T	1370	5T	1380	6T	30	4T
20	2T	15	1T	10											
9	1.629		18	53.000		49.000									
10	1T	15	2T	20	4T	30	6T	1380	5T	1370	44T	1371	51T	1321	67T
1060	75T	1180													
7	.561		18	53.000		49.000									
1180	74C	1190	73C	1300	93C	1301	94C	1200	102C	1192	101C	1191	100C	1190	
10	1.765		18	53.000		49.000									
1190	355T	1320	53T	1322	50T	1321	51T	1371	44T	1370	5T	1380	6T	30	4T
20	2T	15	1T	10											
13	1.902		19	53.000		48.000									
11	3T	15	2T	20	4T	30	6T	1380	5T	1370	44T	1371	51T	1321	50T
1322	53T	1320	355T	1190	100T	1191	101T	1192	102T	1200					
5	.470		19	53.000		48.000									
1200	103C	1250	104C	1240	61T	1270	99T	1260	105C	1250					
15	2.220		19	53.000		48.000									
1250	104T	1240	61T	1270	62T	1311	54T	1310	55T	1312	52T	1320	53T	1322	50T
1321	51T	1371	44T	1370	5T	1380	6T	30	4T	20	2T	15	1T	10	









APPENDIX G

RCSP SCHEDULE

SECTION	TRIP	DISTANCE (MILES)	TIME (MINUTES)	HOUSEHOLDS	CAPACITY (HOUSEHOLDS)	LOAD
1	1	6.2	94.9	70	70.0	70.0
1	2	6.3	95.1	70	70.0	70.0
2	1	5.2	97.9	69	70.0	69.0
2	2	6.2	98.0	69	70.0	69.0
3	1	6.0	94.4	70	70.0	70.0
3	2	6.0	94.5	70	70.0	70.0
4	1	5.3	89.3	66	70.0	66.0
4	2	5.3	89.4	66	70.0	66.0
5	1	5.5	95.9	69	70.0	69.0
5	2	5.5	96.0	69	70.0	69.0
6	1	6.3	90.5	66	70.0	66.0
6	2	6.3	90.6	66	70.0	66.0
7	1	4.3	90.8	70	70.0	70.0
7	2	4.3	90.9	70	70.0	70.0
8	1	4.1	91.9	70	70.0	70.0
8	2	4.2	92.0	70	70.0	70.0
9	1	4.9	100.7	69	70.0	69.0
9	2	5.0	100.8	69	70.0	69.0
10	1	6.3	91.9	66	70.0	66.0
10	2	6.4	92.0	66	70.0	66.0
11	1	5.6	89.3	68	70.0	68.0
11	2	5.7	89.4	68	70.0	68.0
12	1	6.2	93.7	69	70.0	69.0
12	2	6.3	93.8	69	70.0	69.0
13	1	6.7	95.4	68	70.0	68.0
13	2	6.7	95.5	68	70.0	68.0
14	1	5.8	87.6	66	70.0	66.0
14	2	5.8	87.7	66	70.0	66.0
15	1	6.2	90.1	67	70.0	67.0
15	2	6.2	90.3	67	70.0	67.0
16	1	5.7	75.8	55	53.0	45.5
16	2	5.8	76.0	55	53.0	45.5
17	1	4.9	67.9	50	53.0	50.0
17	2	4.9	67.9	50	53.0	50.0
18	1	3.9	64.0	49	53.0	49.0
18	2	4.0	64.1	49	53.0	49.0
19	1	4.6	62.7	48	53.0	48.0
19	2	4.6	62.8	48	53.0	48.0
20	1	5.5	72.9	53	53.0	43.5
20	2	5.6	73.0	53	53.0	43.5
21	1	3.7	63.5	50	53.0	50.0
21	2	3.7	63.6	50	53.0	50.0
22	1	3.8	64.7	51	53.0	51.0
22	2	3.8	64.8	51	53.0	51.0
23	1	4.1	66.7	52	53.0	52.0
23	2	4.2	66.8	52	53.0	52.0

ONLY HALF OF THESE TRIPS WILL BE USED.

## FINAL ROUTE SUMMARY

ROBINS AFB, GA

ROUTE	VEHICLE IDENTIFICATION	VEHICLE CAPACITY (HOUSEHOLDS)	SECTION(S) TRIP1 TRIP2	DISTANCE (MILES)	TIME (MM:SS)	HOUSEHOLDS SERVICED (HOUSEHOLDS)	REFUSE QUANTITY (HOUSEHOLDS)
1	14 CU YD VEHICLE	53.0	21 23	8.0	2421	102	102.0
2	14 CU YD VEHICLE	53.0	17 22	8.9	2424	101	101.0
3	14 CU YD VEHICLE	53.0	20 18	9.7	2428	102	92.5
4	14 CU YD VEHICLE	53.0	16 19	10.5	2430	103	93.5
5	16 CU YD VEHICLE	70.0	14 9	10.9	3119	135	135.0
6	16 CU YD VEHICLE	70.0	11 2	12.0	3118	137	137.0
7	16 CU YD VEHICLE	70.0	4 13	12.2	3116	134	134.0
8	16 CU YD VEHICLE	70.0	6 1	12.7	3116	136	136.0
9	16 CU YD VEHICLE	70.0	7 12	10.8	3115	135	139.0
10	16 CU YD VEHICLE	70.0	10 8	10.6	3115	136	136.0
11	16 CU YD VEHICLE	70.0	3 15	12.4	3116	137	137.0
12	16 CU YD VEHICLE	70.0	5	5.7	1142	65	69.0
TOTALS				124.3	3419	1431	1412.0

ROUTE 1		ROBINS AFB, GA		14 CU YD VEHICLE					
ACTION				SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)	
LEAVE GARAGE									
DRIVE ON	SECOND STREET	TO SECOND STREET		25	8:00				
DRIVE ON	GEORGIA HWY.	TO GEORGIA HWY.		25	8:00	.1			
DRIVE ON	WATSON	TO WATSON		25	8:02	.8			
DRIVE ON	THIRD ST	TO THIRD ST		25	8:03	.1			
DRIVE ON	ROBINS DRIVE	TO ROBINS DRIVE		25	8:03	.2			
PICK UP ON BOTH SIDES	VANDENBURG BLVD	TO VANDENBURG BLVD		5	8:08	.1	3	5	
DRIVE ON	WHITEHEAD CIRCLE	TO WHITEHEAD CIRCLE		15	8:09	.1			
PICK UP ON BOTH SIDES	WHITEHEAD CIRCLE	TO		5	8:27	.1	17	37	
PICK UP ON BOTH SIDES	WHITEHEAD CIRCLE	TO		5	8:40	.1	12	60	
PICK UP ON BOTH SIDES	VANDENBURG BLVD	TO		5	8:59	.1	18	94	
DRIVE ON	ROBINS DRIVE	TO VANDENBURG BLVD		15	8:59	.1			
DRIVE ON	THIRD ST	TO ROBINS DRIVE		15	9:00	.1			
DRIVE ON	WATSON	TO THIRD ST		25	9:00	.2			
DRIVE ON	GEORGIA HWY.	TO WATSON		25	9:01	.2			
DRIVE ON	SECOND STREET	TO GEORGIA HWY.		25	9:01	.1			
DRIVE ON	ROAD TO LAND FILL	TO SECOND STREET		25	9:03	.8			
DRIVE ON		TO ROAD TO LAND FILL		25	9:03	.1			
DRIVE ON		TO LAND FILL		25	9:03	.1			
UNLOAD									
LEAVE LAND FILL									
DRIVE ON	ROAD TO LAND FILL	TO SECOND STREET		25	9:03 TO 9:08				
DRIVE ON	SECOND STREET	TO SECOND STREET		25	9:08	.1			
DRIVE ON	GEORGIA HWY.	TO GEORGIA HWY.		25	9:09	.1			
DRIVE ON	WATSON	TO WATSON		25	9:11	.1			
DRIVE ON	THIRD ST	TO THIRD ST		25	9:11	.1			
DRIVE ON	THIRD ST	TO CANNON ROAD		25	9:12	.2			
DRIVE ON	GILES AVENUE	TO CANNON ROAD		15	9:13	.4			
PICK UP ON BOTH SIDES	VANDENBURG BLVD	TO GILES AVENUE		5	9:13	.1			
PICK UP ON BOTH SIDES	NORSTAD CIRCLE	TO VANDENBURG BLVD		5	9:24	.2	9	16	
PICK UP ON BOTH SIDES	NORSTAD CIRCLE	TO NORSTAD CIRCLE		5	9:29	.1	5	26	
PICK UP ON BOTH SIDES	NORSTAD CIRCLE	TO		5	9:39	.0	9	43	
DRIVE ON	CANNON ROAD	TO		5	10:01	.1	21	83	
DRIVE ON	VANDENBURG BLVD	TO CANNON ROAD		5	10:10	.1	8	98	
DRIVE ON	CANNON ROAD	TO VANDENBURG BLVD		15	10:10	.1			
DRIVE ON	THIRD ST	TO CANNON ROAD		15	10:11	.0			
DRIVE ON	WATSON	TO THIRD ST		25	10:11	.2			
DRIVE ON	GEORGIA HWY.	TO WATSON		25	10:12	.4			
DRIVE ON	SECOND STREET	TO GEORGIA HWY.		25	10:13	.2			
DRIVE ON	ROAD TO LAND FILL	TO SECOND STREET		25	10:13	.1			
DRIVE ON		TO ROAD TO LAND FILL		25	10:15	.8			
DRIVE ON		TO LAND FILL		25	10:15	.1			
UNLOAD									
LEAVE LAND FILL									
DRIVE ON	ROAD TO LAND FILL	TO		25	10:15 TO 10:20	.1			
DRIVE ON		TO GARAGE		25	10:20	.1			
DRIVE ON				25	10:21	.1			



ROUTE 2		ROBINS AFB, GA		14 CU YD VEHICLE					
ACTION				SPEED (MPH)		TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
LEAVE GARAGE						0100			
DRIVE ON	SECOND STREET			25		0100	.1		
DRIVE ON	GEORGIA HWY.			25		0102	.8		
DRIVE ON	WATSON			25		0103	.1		
DRIVE ON	MYRTLE ST.			25		0104	.4		
DRIVE ON	TO SECOND AVE.			25		0104	.2		
DRIVE ON	TO WARNER DRIVE			15		0105	.2		
DRIVE ON	SECOND AVE.			5		0111	.1	5	9
PICK UP ON BOTH SIDES	WARNER DRIVE			5		0121	.2	8	24
PICK UP ON BOTH SIDES	WARNER DRIVE			15		0122	.2		24
DRIVE ON	WARNER DRIVE			5		0151	.2	27	75
PICK UP ON BOTH SIDES	CANNON ROAD			5		0151	.2	10	94
PICK UP ON BOTH SIDES	DOVER DRIVE			5		0152	.1		94
DRIVE ON	SECOND AVE.			15		0152	.1		94
DRIVE ON	SOUTH DAVIS DRIVE			25		0153	.2		94
DRIVE ON	WATSON			25		0155	.8		94
DRIVE ON	GEORGIA HWY.			25		0155	.1		94
DRIVE ON	SECOND STREET			25		0157	.8		94
DRIVE ON	ROAD TO LAND FILL			25		0158	.1		94
DRIVE ON	ROAD TO LAND FILL			25		0158	.1		94
UNLOAD						9108 TO 9113			
LEAVE (LAND FILL						9113			
DRIVE ON	ROAD TO LAND FILL			25		9113	.1		
DRIVE ON	SECOND STREET			25		9113	.1		
DRIVE ON	GEORGIA HWY.			25		9115	.8		
DRIVE ON	WATSON			25		9116	.1		
DRIVE ON	THIRD ST			25		9116	.2		
DRIVE ON	TO CANNON ROAD			25		9117	.4		
PICK UP ON BOTH SIDES	CANNON ROAD			5		9137	.2	18	33
PICK UP ON BOTH SIDES	VANDENBURG BLVD			5		9140	.1	10	52
DRIVE ON	VANDENBURG BLVD			15		9140	.1	52	52
DRIVE ON	VANDENBURG BLVD			5		9151	.0	3	58
PICK UP ON BOTH SIDES	VANDENBURG BLVD			5		1001	.1	9	75
PICK UP ON BOTH SIDES	VANDENBURG BLVD			5		1008	.1	6	86
PICK UP ON BOTH SIDES	VANDENBURG BLVD			5		1013	.1	5	96
PICK UP ON BOTH SIDES	VANDENBURG BLVD			15		1014	.1		96
DRIVE ON	THIRD ST			25		1015	.2		96
DRIVE ON	WATSON			25		1015	.2		96
DRIVE ON	GEORGIA HWY.			25		1015	.1		96
DRIVE ON	SECOND STREET			25		1017	.8		96
DRIVE ON	ROAD TO LAND FILL			25		1017	.1		96
DRIVE ON	ROAD TO LAND FILL			25		1018	.1		96
UNLOAD						1018 TO 10123			
DRIVE ON	ROAD TO LAND FILL			25		1018	.1		
DRIVE ON	TO GARAGE			25		10123	.1		

ROUTE 3		ROBINS AFB, GA		14 CU YD VEHICLE				
ACTION				SPEED (MPH)	TIME (HHMMSS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
LEAVE GARAGE								
DRIVE ON	SECOND STREET		TO SECOND STREET	25	8:00	.1		
DRIVE ON	GEORGIA HWY.		TO GEORGIA HWY.	25	8:02	.0		
DRIVE ON	DUKE STREET		TO DUKE STREET	25	8:03	.3		
DRIVE ON	MOBILE HOME COURT ENTRANCE		TO MOBILE HOME COURT ENTRANCE	25	8:04	.4		
DRIVE ON	MOBILE HOME COURT ENTRANCE		TO MOBILE HOME COURT ENTRANCE	15	8:04	.0		
PICK UP ON BOTH SIDES	MOBILE HOME COURT ENTRANCE		TO MOBILE HOME COURT ENTRANCE		8:12	.1	6	5
PICK UP ON BOTH SIDES	MOBILE HOME COURT ENTRANCE		TO MOBILE HOME COURT ENTRANCE		8:15	.0	3	8
PICK UP ON BOTH SIDES	MOBILE HOME COURT ENTRANCE		TO DUKE STREET		8:25	.1	9	16
DRIVE ON	MOBILE HOME COURT ENTRANCE		TO MOBILE HOME COURT ENTRANCE	15	8:26	.1		16
PICK UP ON	MOBILE HOME COURT ENTRANCE		TO MYRTLE ST.		8:27	.0	1	17
DRIVE ON	MYRTLE ST.		TO MYRTLE ST.		8:28	.3		17
DRIVE ON	WATSON		TO WATSON DRIVE	25	8:28	.2		17
DRIVE ON	ROBINS DRIVE		TO ROBINS DRIVE	15	8:29	.1		17
DRIVE ON	FIRST AVE.		TO FIRST AVE.	15	8:29	.1		17
DRIVE ON	FIRST AVE.		TO DOVER DRIVE	15	8:36	.0		29
PICK UP ON BOTH SIDES	FIRST AVE.		TO SOUTH DAVIS DRIVE		8:42	.1	6	40
DRIVE ON	SOUTH DAVIS DRIVE		TO CANNON ROAD	25	8:43	.2		40
PICK UP ON BOTH SIDES	CANNON ROAD		TO DOVER DRIVE		8:54	.1	10	59
DRIVE ON	CANNON ROAD		TO MORSTAD CIRCLE	15	8:55	.4		59
PICK UP ON BOTH SIDES	CANNON ROAD		TO VANDENBURG BLVD		9:00	.1	12	82
DRIVE ON	VANDENBURG BLVD		TO CANNON ROAD	15	9:00	.0		82
DRIVE ON	CANNON ROAD		TO THIRD ST	15	9:09	.2		82
DRIVE ON	THIRD ST		TO WATSON	25	9:10	.4		82
DRIVE ON	WATSON		TO GEORGIA HWY.	25	9:10	.2		82
DRIVE ON	GEORGIA HWY.		TO SECOND STREET	25	9:10	.1		82
DRIVE ON	SECOND STREET		TO SECOND STREET	25	9:12	.1		82
DRIVE ON	ROAD TO LAND FILL		TO ROAD TO LAND FILL	25	9:13	.1		82
DRIVE ON	ROAD TO LAND FILL		TO LAND FILL	25	9:13	.1		82
UNLOAD								
LEAVE LANC FILL								
DRIVE ON	ROAD TO LAND FILL		TO SECOND STREET	25	9:18	.1		
DRIVE ON	SECOND STREET		TO GEORGIA HWY.	25	9:18	.1		
DRIVE ON	GEORGIA HWY.		TO WATSON	25	9:20	.0		
DRIVE ON	WATSON		TO THIRD ST	25	9:21	.1		
DRIVE ON	THIRD ST		TO ROBINS DRIVE	25	9:21	.2		
DRIVE ON	ROBINS DRIVE		TO VANDENBURG BLVD	15	9:22	.1		
PICK UP ON BOTH SIDES	ROBINS DRIVE		TO MYRTLE ST.		9:36	.2	12	22
PICK UP ON BOTH SIDES	ROBINS DRIVE		TO WATSON		9:43	.1	6	33
PICK UP ON BOTH SIDES	WATSON		TO WATSON	5	9:46	.0	2	37
PICK UP ON BOTH SIDES	WATSON		TO WATSON	5	9:50	.1	3	43
PICK UP ON BOTH SIDES	WATSON		TO SECOND AVE.	5	10:00	.1	10	62
PICK UP ON BOTH SIDES	WATSON		TO SECOND AVE.	5	10:00	.0	7	75
PICK UP ON BOTH SIDES	WATSON		TO MYRTLE ST.	5	10:18	.1	9	92
DRIVE ON	WATSON		TO WATSON	25	10:18	.2		92
DRIVE ON	GEORGIA HWY.		TO SECOND STREET	25	10:19	.4		92
DRIVE ON	SECOND STREET		TO SECOND STREET	25	10:20	.1		92

ACTION	SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
DRIVE ON	25	10:22	.8		92
DRIVE ON	25	10:22	.1		92
DRIVE ON	25	10:22	.1		92
		10:22 TO 10:27			
UNLOAD	25	10:27	.1		
DRIVE ON	25	10:27	.1		

TO  
TO ROAD TO LAND FILL  
TO LAND FILL

SECOND STREET  
ROAD TO LAND FILL

TO  
TO GARAGE

ROAD TO LAND FILL

ROUTE 4		ROBINS AFB, GA		14 CU YD VEHICLE				
ACTION				SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
LEAVE GARAGE								
DRIVE ON				25	8:00			
DRIVE ON	SECOND STREET			25	8:00	.1		
DRIVE ON	GEORGIA HWY.			25	8:02	.8		
DRIVE ON	WATSON			25	8:03	.1		
DRIVE ON	THIRD ST			25	8:04	.2		
DRIVE ON	THIRD ST			25	8:05	.4		
DRIVE ON	THIRD ST			15	8:05	.1		
PICK UP ON BOTH SIDES	BAKER DRIVE			5	8:29	.1	23	43
DRIVE ON	VANDENBURG BLVD			15	8:31	.4		43
PICK UP ON BOTH SIDES	VANDENBURG BLVD			5	8:45	.1	13	67
DRIVE ON	TIBBETS CIRCLE			15	8:46	.2		67
DRIVE ON	WARNER DRIVE			15	8:47	.3		67
DRIVE ON	SECOND AVE.			15	8:48	.2		67
DRIVE ON	MYRTLE ST.			25	8:49	.5		67
PICK UP ON	MOBILE HOME COURT ENTRANCE			5	8:50	.0	1	68
PICK UP ON	MOBILE HOME COURT ENTRANCE			5	8:58	.1	6	74
DRIVE ON	MOBILE HOME COURT ENTRANCE			15	8:58	.0		74
PICK UP ON	MOBILE HOME COURT ENTRANCE			5	9:08	.1	9	83
PICK UP ON	MOBILE HOME COURT ENTRANCE			5	9:11	.0	3	85
PICK UP ON	MOBILE HOME COURT ENTRANCE			15	9:12	.0		85
DRIVE ON	MOBILE HOME COURT ENTRANCE			25	9:12	.2		85
DRIVE ON	MYRTLE ST.			25	9:13	.3		85
DRIVE ON	DUKE STREET			25	9:13	.3		85
DRIVE ON	GEORGIA HWY.			25	9:15	.8		85
DRIVE ON	SECOND STREET			25	9:16	.1		85
DRIVE ON	ROAD TO LAND FILL			25	9:16	.1		85
UNLOAD								
LEAVE LAND FILL					9:16 TO 9:21			
DRIVE ON	ROAD TO LAND FILL			25	9:21	.1		
DRIVE ON	SECOND STREET			25	9:21	.1		
DRIVE ON	GEORGIA HWY.			25	9:23	.8		
DRIVE ON	WATSON			25	9:24	.1		
DRIVE ON	MYRTLE ST.			25	9:25	.4		
DRIVE ON	SECOND AVE.			25	9:25	.2		
DRIVE ON	SECOND AVE.			15	9:26	.2		
PICK UP ON BOTH SIDES	SECOND AVE.			5	9:56	.2	28	52
PICK UP ON BOTH SIDES	SECOND AVE.			5	10:05	.1	8	67
DRIVE ON	SOUTH DAVIS DRIVE			25	10:05	.1		67
DRIVE ON	DOVER DRIVE			15	10:05	.1		67
PICK UP ON BOTH SIDES	DOVER DRIVE			5	10:18	.1	12	90
DRIVE ON	SECOND AVE.			15	10:18	.1		90
DRIVE ON	SOUTH DAVIS DRIVE			25	10:19	.2		90
DRIVE ON	WATSON			25	10:21	.8		90
DRIVE ON	GEORGIA HWY.			25	10:21	.1		90
DRIVE ON	SECOND STREET			25	10:23	.8		90
DRIVE ON	ROAD TO LAND FILL			25	10:23	.1		90
DRIVE ON	ROAD TO LAND FILL			25	10:24	.1		90
UNLOAD								
					10:24 TO 10:29			





ROUTE 5	ROBINS AFB, GA	16 CU YD VEHICLE	SPEED (MPH)	TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
ACTION							
LEAVE GARAGE				8:00			
DRIVE ON	SECOND STREET	TO SECOND STREET	25	8:00	.1		
DRIVE ON	GEORGIA HWY.	TO GEORGIA HWY.	25	8:02	.8		
DRIVE ON	WATSON	TO WATSON	25	8:03	.1		
DRIVE ON	THIRD ST	TO THIRD ST	25	8:03	.2		
DRIVE ON	CANNON ROAD	TO CANNON ROAD	25	8:04	.4		
DRIVE ON	VANDENBURG BLVD	TO VANDENBURG BLVD	15	8:05	.2		
DRIVE ON	TIBBETS CIRCLE	TO TIBBETS CIRCLE	15	8:06	.5		
DRIVE ON	RANDOLPH	TO RANDOLPH	15	8:07	.2		
PICK UP ON BOTH SIDES	RANDOLPH	TO OFFUTT	5	8:25	.1	16	22
PICK UP ON BOTH SIDES	KELLY	TO KELLY	5	8:44	.1	18	48
DRIVE ON	OLMSTAD STREET	TO OLMSTAD STREET	15	8:45	.2		
PICK UP ON BOTH SIDES	OLMSTAD STREET	TO MC CLELLAN	5	8:50	.1	4	48
DRIVE ON	OLMSTAD STREET	TO BROOKLEY AVE.	15	8:50	.1	54	54
PICK UP ON BOTH SIDES	OLMSTAD STREET	TO MC CLELLAN	5	9:03	.1	12	71
PICK UP ON BOTH SIDES	OLMSTAD STREET	TO TIBBETS CIRCLE	5	9:14	.1	10	85
PICK UP ON BOTH SIDES	TIBBETS CIRCLE	TO VANDENBURG BLVD	15	9:21	.2	6	94
DRIVE ON	VANDENBURG BLVD	TO CANNON ROAD	15	9:23	.5		
DRIVE ON	CANNON ROAD	TO THIRD ST	15	9:24	.2		
DRIVE ON	THIRD ST	TO WATSON	25	9:25	.4		
DRIVE ON	WATSON	TO GEORGIA HWY.	25	9:25	.2		
DRIVE ON	GEORGIA HWY.	TO SECOND STREET	25	9:25	.1		
DRIVE ON	SECOND STREET	TO ROAD TO LAND FILL	25	9:27	.8		
DRIVE ON	ROAD TO LAND FILL	TO LAND FILL	25	9:27	.1		
UNLOAD				9:28			
LEAVE LAND FILL				9:28 TO 9:33			
DRIVE ON	ROAD TO LAND FILL	TO SECOND STREET	25	9:33	.1		
DRIVE ON	SECOND STREET	TO F-STREET	25	9:33	.0		
DRIVE ON	F-STREET	TO FOURTH STREET	25	9:34	.5		
DRIVE ON	FOURTH STREET	TO OFFICER CIRCLE	15	9:34	.0		
PICK UP ON BOTH SIDES	OFFICER CIRCLE	TO	5	9:38	.1	3	4
PICK UP ON BOTH SIDES	OFFICER CIRCLE	TO	5	9:40	.0	1	5
PICK UP ON BOTH SIDES	OFFICER CIRCLE	TO	5	9:50	.2	8	17
PICK UP ON BOTH SIDES	OFFICER CIRCLE	TO HOLLEY DRIVE	5	9:55	.1	4	22
PICK UP ON BOTH SIDES	OFFICER CIRCLE	TO OFFICER CIRCLE	5	10:04	.1	8	34
PICK UP ON BOTH SIDES	OFFICER CIRCLE	TO	5	10:06	.0	1	35
PICK UP ON BOTH SIDES	OFFICER CIRCLE	TO	5	10:09	.0	3	39
PICK UP ON BOTH SIDES	OFFICER CIRCLE	TO	5	10:15	.1	5	47
PICK UP ON BOTH SIDES	OFFICER CIRCLE	TO	5	10:15	.1	3	51
DRIVE ON	HOLLEY DRIVE	TO HOLLEY DRIVE	15	10:19	.0		
DRIVE ON	OFFICER CIRCLE	TO OFFICER CIRCLE	15	10:20	.1		
PICK UP ON BOTH SIDES	OFFICER CIRCLE	TO FIFTH STREET	5	10:25	.2	3	51
PICK UP ON BOTH SIDES	FIFTH STREET	TO	5	10:27	.1	1	57
DRIVE ON	OFFICER CIRCLE	TO	15	10:28	.1		
PICK UP ON BOTH SIDES	OFFICER CIRCLE	TO	5	10:35	.2	6	65

ACTION	SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
DRIVE ON	15	10:36	.1		65
PICK UP ON	5	10:38	.1	1	67
PICK UP ON	5	10:40	.1	1	68
PICK UP ON BOTH SIDES	5	10:44	.1	3	72
DRIVE ON	15	10:44	.1		72
DRIVE ON	25	10:45	.3		72
DRIVE ON	15	10:45	.0		72
PICK UP ON BOTH SIDES	5	10:49	.1	2	75
DRIVE ON	15	10:49	.1		75
PICK UP ON BOTH SIDES	5	10:56	.1	6	84
DRIVE ON	15	10:57	.0		84
DRIVE ON	25	10:57	.1		84
PICK UP ON BOTH SIDES	15	10:57	.0		84
PICK UP ON BOTH SIDES	5	11:03	.1	4	89
DRIVE ON	5	11:10	.1	6	98
DRIVE ON	15	11:10	.0		98
DRIVE ON	25	11:11	.3		98
DRIVE ON	15	11:12	.2		98
DRIVE ON	25	11:13	.5		98
DRIVE ON	25	11:13	.0		98
DRIVE ON	25	11:13	.1		98
DRIVE ON	25	11:13	.1		98
UNLOAD		11:13 TO 11:18			
DRIVE ON	25	11:19	.1		
DRIVE ON	25	11:19	.1		

ROUTE 6	ROBINS AFB, GA	16 CU YD VEHICLE	SPEED (MPH)	TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
LEAVE GARAGE				8:00			
DRIVE ON	SECOND STREET		25	8:00	.1	13	18
DRIVE ON	GEORGIA HWY.		25	8:02	.8	7	28
DRIVE ON	WATSON		25	8:03	.1		28
DRIVE ON	THIRD ST		25	8:03	.2		37
DRIVE ON	CANNON ROAD		25	8:04	.4	10	51
DRIVE ON	VANDENBURG BLVD		15	8:05	.2	13	69
DRIVE ON	WELBORN STREET		15	8:06	.3	8	81
DRIVE ON	RANDOLPH		25	8:06	.3	3	85
PICK UP ON	BOTH SIDES RANDOLPH		25	8:07	.3	5	92
PICK UP ON	BOTH SIDES RANDOLPH		5	8:21	.1	3	97
DRIVE ON	HILL STREET		5	8:28	.0		97
DRIVE ON	NORTON		15	8:29	.1		97
PICK UP ON	BOTH SIDES MARCH STREET		5	8:36	.1	6	37
PICK UP ON	BOTH SIDES BROOKLEY AVE.		5	8:47	.1	10	51
PICK UP ON	BOTH SIDES BROCKLEY AVE.		5	9:01	.1	13	69
PICK UP ON	BOTH SIDES BROCKLEY AVE.		5	9:10	.1	8	81
PICK UP ON	BOTH SIDES BROCKLEY AVE.		5	9:13	.0	3	85
PICK UP ON	BOTH SIDES BROCKLEY AVE.		5	9:19	.1	5	92
PICK UP ON	BOTH SIDES BROCKLEY AVE.		5	9:23	.1	3	97
DRIVE ON	RANDOLPH		15	9:23	.0		97
DRIVE ON	WELBORN STREET		25	9:23	.3		97
DRIVE ON	VANDENBURG BLVD		15	9:25	.3		97
DRIVE ON	CANNON ROAD		15	9:25	.2		97
DRIVE ON	THIRD ST		25	9:26	.4		97
DRIVE ON	WATSON		25	9:27	.2		97
DRIVE ON	GEORGIA HWY.		25	9:27	.1		97
DRIVE ON	SECOND STREET		25	9:29	.8		97
DRIVE ON	ROAD TO LAND FILL		25	9:29	.1		97
UNLOAD				9:29 TO 9:34			
LEAVE LAND FILL				9:34			
DRIVE ON	ROAD TO LAND FILL		25	9:35	.1		
DRIVE ON	SECOND STREET		25	9:35	.1		
DRIVE ON	F-STREET		25	9:36	.5		
DRIVE ON	F-STREET		15	9:37	.2		
DRIVE ON	FIFTH STREET		25	9:37	.2		
DRIVE ON	F-STREET		15	9:39	.6		
DRIVE ON	F-STREET		15	9:39	.1		
DRIVE ON	TENTH STREET		25	9:40	.4		
DRIVE ON	H STREET		15	9:41	.2		
DRIVE ON	BOTH SIDES ELEVENTH STREET		5	9:52	.1	10	14
PICK UP ON	BOTH SIDES ELEVENTH STREET		5	9:56	.0	4	19
PICK UP ON	BOTH SIDES ELEVENTH STREET		5	9:59	.0	2	22
PICK UP ON	BOTH SIDES ELEVENTH STREET		5	10:05	.0	6	31

ACTION	SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
PICK UP ON BOTH SIDES ELEVENTH STREET	5	10:00	.0	2	34
PICK UP ON BOTH SIDES ELEVENTH STREET	5	10:11	.0	3	38
PICK UP ON BOTH SIDES 12TH STREET	5	10:14	.1	2	41
DRIVE ON	15	10:14	.0		41
DRIVE ON	15	10:14	.1		41
DRIVE ON	15	10:15	.1		41
PICK UP ON BOTH SIDES CRESENT DRIVE	5	10:21	.1	5	48
PICK UP ON BOTH SIDES I STREET	5	10:28	.1	6	57
PICK UP ON BOTH SIDES I STREET	5	10:35	.1	6	65
DRIVE ON	15	10:36	.1		65
PICK UP ON BOTH SIDES AIRMEN STREET	5	10:43	.1	6	74
DRIVE ON	15	10:43	.1		74
PICK UP ON BOTH SIDES CRESENT DRIVE	5	10:49	.1	4	75
PICK UP ON BOTH SIDES CRESENT DRIVE	5	10:54	.1	4	85
PICK UP ON BOTH SIDES CRESENT DRIVE	5	10:59	.1	4	91
PICK UP ON BOTH SIDES CRESENT DRIVE	5	11:06	.2	5	98
DRIVE ON	15	11:07	.4		98
DRIVE ON	25	11:08	.2		98
DRIVE ON	15	11:08	.1		98
DRIVE ON	25	11:09	.6		98
DRIVE ON	25	11:10	.2		98
DRIVE ON	15	11:11	.2		98
DRIVE ON	25	11:12	.5		98
DRIVE ON	25	11:12	.0		98
DRIVE ON	25	11:12	.1		98
DRIVE ON	25	11:12	.1		98
UNLOAD		11:12 TO 11:17			
DRIVE ON	25	11:18	.1		
DRIVE ON	25	11:18	.1		



ROUTE 7	ROBINS AFB, GA	16 CU YD VEHICLE	SPEED (MPH)	TIME (H:MM:SS)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
ACTION							
LEAVE GARAGE				0:00			
DRIVE ON	SECOND STREET		25	0:00	.1		
DRIVE ON	F-STREET		25	0:00	.0		
DRIVE ON	F-STREET		25	0:02	.5		
DRIVE ON	FIFTH STREET		25	0:03	.2		
DRIVE ON	F-STREET		25	0:04	.6		
DRIVE ON	F-STREET		25	0:05	.1		
DRIVE ON	F-STREET		25	0:06	.2		
DRIVE ON	NINTH STREET		25	0:14	.2	6	8
PICK UP ON BOTH SIDES	H STREET		25	0:14	.0		8
DRIVE ON	H STREET COURT		25	0:16	.0	2	11
PICK UP ON BOTH SIDES	H STREET COURT		25	0:21	.0	4	17
PICK UP ON BOTH SIDES	H STREET COURT		25	0:21	.0		17
DRIVE ON	H STREET		25	0:21	.0		17
PICK UP ON BOTH SIDES	TENTH STREET		25	0:39	.2	16	39
PICK UP ON BOTH SIDES	7TH STREET		25	0:45	.1	5	47
PICK UP ON BOTH SIDES	7TH STREET		25	0:50	.1	4	52
DRIVE ON	7TH STREET		25	0:50	.1		52
PICK UP ON BOTH SIDES	AIRMAN STREET		25	0:54	.0	4	58
PICK UP ON BOTH SIDES	AIRMAN STREET		25	0:55	.1	5	65
PICK UP ON BOTH SIDES	AIRMAN STREET		25	0:55	.1	4	71
PICK UP ON BOTH SIDES	AIRMAN STREET		25	0:55	.1	4	82
PICK UP ON BOTH SIDES	AIRMAN STREET		25	0:55	.1	6	91
PICK UP ON BOTH SIDES	AIRMAN STREET		25	0:55	.0	2	94
DRIVE ON	NINTH STREET		25	0:55	.2		94
DRIVE ON	F-STREET		25	0:55	.2		94
DRIVE ON	F-STREET		25	0:55	.1		94
DRIVE ON	FIFTH STREET		25	0:55	.6		94
DRIVE ON	FIFTH STREET		25	0:55	.2		94
DRIVE ON	F-STREET		25	0:55	.5		94
DRIVE ON	F-STREET		25	0:55	.0		94
DRIVE ON	SECOND STREET		25	0:55	.1		94
DRIVE ON	ROAD TO LAND FILL		25	0:55	.1		94
UNLOAD				0:55			
LEAVE LAND FILL				0:55			
DRIVE ON	ROAD TO LAND FILL		25	0:55	.1		
DRIVE ON	SECOND STREET		25	0:55	.8		
DRIVE ON	GEORGIA HWY.		25	0:55	.1		
DRIVE ON	WATSON		25	0:55	.2		
DRIVE ON	THIRD ST		25	0:55	.4		
DRIVE ON	CANNON ROAD		25	0:55	.2		
DRIVE ON	VANDENBURG BLVD		25	0:55	.3		
DRIVE ON	WELBORN STREET		25	0:55	.3		



ACTION	SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
DRIVE ON	15	9:41	.0		
DRIVE ON	15	9:41	.1		
PICK UP ON BOTH SIDES	5	9:56	.1	13	18
DRIVE ON	15	9:56	.1		18
DRIVE ON	15	9:57	.1		18
DRIVE ON	15	9:57	.1		18
PICK UP ON BOTH SIDES	5	10:00	.1	2	21
DRIVE ON	15	10:00	.0		21
PICK UP ON BOTH SIDES	5	10:09	.1	8	32
PICK UP ON BOTH SIDES	5	10:13	.0	4	38
PICK UP ON BOTH SIDES	5	10:22	.1	8	50
PICK UP ON BOTH SIDES	5	10:33	.1	10	64
PICK UP ON BOTH SIDES	5	10:40	.1	6	72
DRIVE ON	15	10:40	.0		72
PICK UP ON BOTH SIDES	5	10:44	.1	3	77
DRIVE ON	15	10:44	.1		77
PICK UP ON BOTH SIDES	5	10:48	.0	3	81
PICK UP ON BOTH SIDES	5	10:49	.0	1	82
DRIVE ON	15	10:50	.1		82
DRIVE ON	15	10:50	.1		82
DRIVE ON	15	10:50	.1		82
DRIVE ON	15	10:50	.0		82
PICK UP ON BOTH SIDES	5	10:55	.0	4	88
DRIVE ON	15	10:56	.1		88
DRIVE ON	15	10:56	.1		88
PICK UP ON BOTH SIDES	5	11:03	.1	6	97
DRIVE ON	15	11:03	.2		97
DRIVE ON	15	11:05	.5		97
DRIVE ON	15	11:06	.2		97
DRIVE ON	25	11:07	.4		97
DRIVE ON	25	11:07	.2		97
DRIVE ON	25	11:07	.1		97
DRIVE ON	25	11:09	.8		97
DRIVE ON	25	11:10	.1		97
DRIVE ON	25	11:10	.1		97
UNLOAD		11:10 TO 11:15			
DRIVE ON	25	11:15	.1		
DRIVE ON	25	11:15	.1		



ACTION	SPEED (MPH)	TIME (HRS:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
DRIVE ON	25	9:36	.0		
DRIVE ON	25	9:37	.5		
DRIVE ON	15	9:38	.2		
DRIVE ON	25	9:38	.2		
DRIVE ON	25	9:40	.6		
DRIVE ON	15	9:40	.1		
DRIVE ON	25	9:41	.5		
DRIVE ON	25	9:42	.2		
DRIVE ON	15	9:42	.0		
DRIVE ON	5	9:49	.0	6	8
PICK UP ON BOTH SIDES	5	9:51	.0	2	11
PICK UP ON BOTH SIDES	5	9:56	.0	4	17
PICK UP ON BOTH SIDES	15	9:56	.0		17
DRIVE ON	15	9:56	.0		17
PICK UP ON BOTH SIDES	5	10:01	.1	4	22
PICK UP ON BOTH SIDES	5	10:04	.1	2	25
PICK UP ON BOTH SIDES	5	10:11	.1	6	34
DRIVE ON	15	10:11	.0		34
DRIVE ON	15	10:11	.1		34
PICK UP ON BOTH SIDES	5	10:16	.1	4	39
PICK UP ON BOTH SIDES	5	10:22	.0	6	48
PICK UP ON BOTH SIDES	5	10:27	.1	4	54
DRIVE ON	15	10:28	.1		54
PICK UP ON BOTH SIDES	5	10:39	.1	10	68
DRIVE ON	15	10:39	.0		68
PICK UP ON BOTH SIDES	5	10:52	.1	12	85
PICK UP ON BOTH SIDES	5	10:56	.0	4	91
PICK UP ON BOTH SIDES	5	10:59	.0	2	94
DRIVE ON	15	11:01	.1	2	97
PICK UP ON BOTH SIDES	5	11:01	.1		97
DRIVE ON	5	11:04	.0	2	100
DRIVE ON	15	11:04	.0		100
DRIVE ON	15	11:05	.2		100
DRIVE ON	25	11:06	.5		100
DRIVE ON	15	11:06	.1		100
DRIVE ON	25	11:08	.6		100
DRIVE ON	25	11:08	.2		100
DRIVE ON	15	11:09	.2		100
DRIVE ON	25	11:10	.5		100
DRIVE ON	25	11:10	.0		100
DRIVE ON	25	11:10	.1		100
DRIVE ON	25	11:11	.1		100
UNLOAD		11:11 TO 11:16			
DRIVE ON	25	11:16	.1		
DRIVE ON	25	11:16	.1		





ACTION	SPEED (MPH)	TIME (HH:MM)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
DRIVE ON	15	9:42	.3		
DRIVE ON	25	9:42	.3		
DRIVE ON	15	9:43	.2		
PICK UP ON BOTH SIDES HILL STREET	5	9:49	.1	5	7
PICK UP ON BOTH SIDES HILL STREET	5	10:12	.2	21	37
PICK UP ON BOTH SIDES BROOKLEY AVE.	5	10:19	.1	6	45
DRIVE ON	15	10:19	.1		45
PICK UP ON BOTH SIDES BROOKLEY AVE.	5	10:26	.1	6	54
PICK UP ON BOTH SIDES BROOKLEY AVE.	5	10:28	.0	2	57
PICK UP ON BOTH SIDES BROOKLEY AVE.	5	10:32	.1	3	61
DRIVE ON	15	10:32	.1		
DRIVE ON	15	10:32	.0		61
PICK UP ON BOTH SIDES	5	10:41	.1	8	72
DRIVE ON	15	10:42	.1		72
DRIVE ON	15	10:42	.0		72
DRIVE ON	15	10:42	.1		72
DRIVE ON	15	10:42	.1		72
PICK UP ON BOTH SIDES	5	10:49	.1	6	81
PICK UP ON BOTH SIDES	5	11:03	.1	12	98
DRIVE ON	15	11:03	.1		98
DRIVE ON	15	11:03	.0		98
DRIVE ON	25	11:04	.3		98
DRIVE ON	15	11:05	.3		98
DRIVE ON	15	11:05	.2		98
DRIVE ON	25	11:06	.4		98
DRIVE ON	25	11:07	.2		98
DRIVE ON	25	11:07	.1		98
DRIVE ON	25	11:09	.8		98
DRIVE ON	25	11:09	.1		98
DRIVE ON	25	11:10	.1		98
UNLOAD		11:10 TO 11:15			
DRIVE ON	25	11:15	.1		
DRIVE ON	25	11:15	.1		



ROUTE 10		ROBINS AFB, GA		16 CU YD VEHICLE		TIME		DISTANCE		HOUSEHOLDS		LOAD	
ACTION				SPEED		(HR:MIN)		(MILES)		SERVICED		(PCT)	
LEAVE GARAGE													
DRIVE ON	SECOND STREET			25		8100							
DRIVE ON	F-STREET			25		8100		.1					
DRIVE ON	F-STREET			25		8102		.5					
DRIVE ON	FIFTH STREET			25		8102		.2					
DRIVE ON	E STREET			15		8103		.1					
DRIVE ON	E STREET			15		8104		.2					
DRIVE ON	6TH STREET			15		8104		.0					
PICK UP ON BOTH SIDES	OAK STREET			5		8110		.1		4		5	
PICK UP ON BOTH SIDES	OAK STREET			5		8114		.0		4		11	
PICK UP ON BOTH SIDES	OAK STREET			5		8119		.1		4		17	
PICK UP ON BOTH SIDES	OAK STREET			5		8124		.1		4		22	
PICK UP ON BOTH SIDES	OAK STREET			15		8125		.1					
DRIVE ON	B STREET			25		8126		.6					
DRIVE ON	PAGE RD			25		8127		.3					
DRIVE ON	FIFTH STREET			15		8128		.1					
DRIVE ON	THIRD ST			15		8128		.1					
DRIVE ON	BAKER DRIVE			15		8128		.2					
DRIVE ON	VANDENBURG BLVD			25		8129		.3		4		28	
DRIVE ON	WELBORN STREET			15		8134		.0					
PICK UP ON BOTH SIDES	PANDOLPH			15		8135		.2					
DRIVE ON	PANDOLPH			15		8135		.1					
DRIVE ON	TIBBETS CIRCLE			5		8151		.1		15		50	
PICK UP ON BOTH SIDES	TIBBETS CIRCLE			5		9101		.1		9		62	
PICK UP ON BOTH SIDES	VANDENBURG BLVD			15		9101		.1					
PICK UP ON BOTH SIDES	VANDENBURG BLVD			5		9111		.1		9		75	
PICK UP ON BOTH SIDES	VANDENBURG BLVD			5		9116		.0		5		82	
PICK UP ON BOTH SIDES	VANDENBURG BLVD			5		9126		.2		8		94	
DRIVE ON	VANDENBURG BLVD			15		9127		.2					
DRIVE ON	CANNON ROAD			15		9128		.2					
DRIVE ON	THIRD ST			25		9129		.4					
DRIVE ON	MATSON			25		9129		.2					
DRIVE ON	GEORGIA HWY.			25		9129		.1					
DRIVE ON	SECOND STREET			25		9131		.4					
DRIVE ON	ROAD TO LAND FILL			25		9132		.1					
DRIVE ON	ROAD TO LAND FILL			25		9132		.1					
UNLOAD						9132 TO 9137							
LEAVE LAND FILL	ROAD TO LAND FILL			25		9137		.1					
DRIVE ON	SECOND STREET			25		9137		.0					
DRIVE ON	F-STREET			25		9139		.5					
DRIVE ON	FIFTH STREET			15		9139		.2					
DRIVE ON	E STREET			25		9140		.2					
DRIVE ON	E STREET			15		9140		.1					
PICK UP ON BOTH SIDES	6TH STREET			15		9140		.1		4		5	
PICK UP ON BOTH SIDES	6TH STREET			5		9146		.2					





ACTION	SPEED (MPH)	TIME (HR:MIN)	DISTANCE (MILES)	HOUSEHOLDS SERVICED	LOAD (PCT)
DRIVE ON	25	9:34	.0		100
DRIVE ON	25	9:34	.1		100
DRIVE ON	25	9:34	.1		100
UNLOAD		9:34 TO 9:39			
LEAVE LANE FILL		9:39			
DRIVE ON	25	9:40	.1		
DRIVE ON	25	9:40	.1		
DRIVE ON	25	9:42	.8		
DRIVE ON	25	9:42	.1		
DRIVE ON	25	9:43	.4		
DRIVE ON	25	9:44	.2		
DRIVE ON	15	9:46	.3		
DRIVE ON	15	9:46	.2		
DRIVE ON	15	9:46	.1	22	31
PICK UP ON BOTH SIDES	5	10:10	.1		31
DRIVE ON	15	10:10	.1		31
DRIVE ON	15	10:11	.3		31
DRIVE ON	15	10:11	.1	6	39
PICK UP ON BOTH SIDES	5	10:18	.1		39
DRIVE ON	15	10:18	.1		39
DRIVE ON	15	10:18	.2	26	77
PICK UP ON BOTH SIDES	5	10:47	.3		77
DRIVE ON	15	10:48	.1		77
DRIVE ON	15	10:49	.1	13	95
PICK UP ON BOTH SIDES	5	11:03	.1		95
DRIVE ON	15	11:05	.5		95
DRIVE ON	15	11:06	.2		95
DRIVE ON	25	11:07	.4		95
DRIVE ON	25	11:07	.2		95
DRIVE ON	25	11:07	.1		95
DRIVE ON	25	11:09	.8		95
DRIVE ON	25	11:09	.1		95
DRIVE ON	25	11:10	.1		95
UNLOAD		11:10 TO 11:15			
DRIVE ON	25	11:15	.1		
DRIVE ON	25	11:15	.1		
TO SECOND STREET					
TO ROAD TO LAND FILL					
TO LAND FILL					
TO SECOND STREET					
TO GEORGIA HWY.					
TO WATSON					
TO MYRTLE ST.					
TO SECOND AVE.					
TO WARNER DRIVE					
TO TIBBETS CIRCLE					
TO VANDENBURG BLVD					
TO HUDSON STREET					
TO OLMSTAD STREET					
TO KELLY					
TO SOUTH DAVIS DRIVE					
TO KELLY					
TO OLMSTAD STREET					
TO TIBBETS CIRCLE					
TO HUDSON STREET					
TO VANDENBURG BLVD					
TO CANNON ROAD					
TO THIRD ST					
TO WATSON					
TO GEORGIA HWY.					
TO SECOND STREET					
TO ROAD TO LAND FILL					
TO LAND FILL					
TO GAGE					







APPENDIX H

RCSP ROUTE MAPS



ROBINS AFB, GA.

ROUTE 1 TRIP 1  
14 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



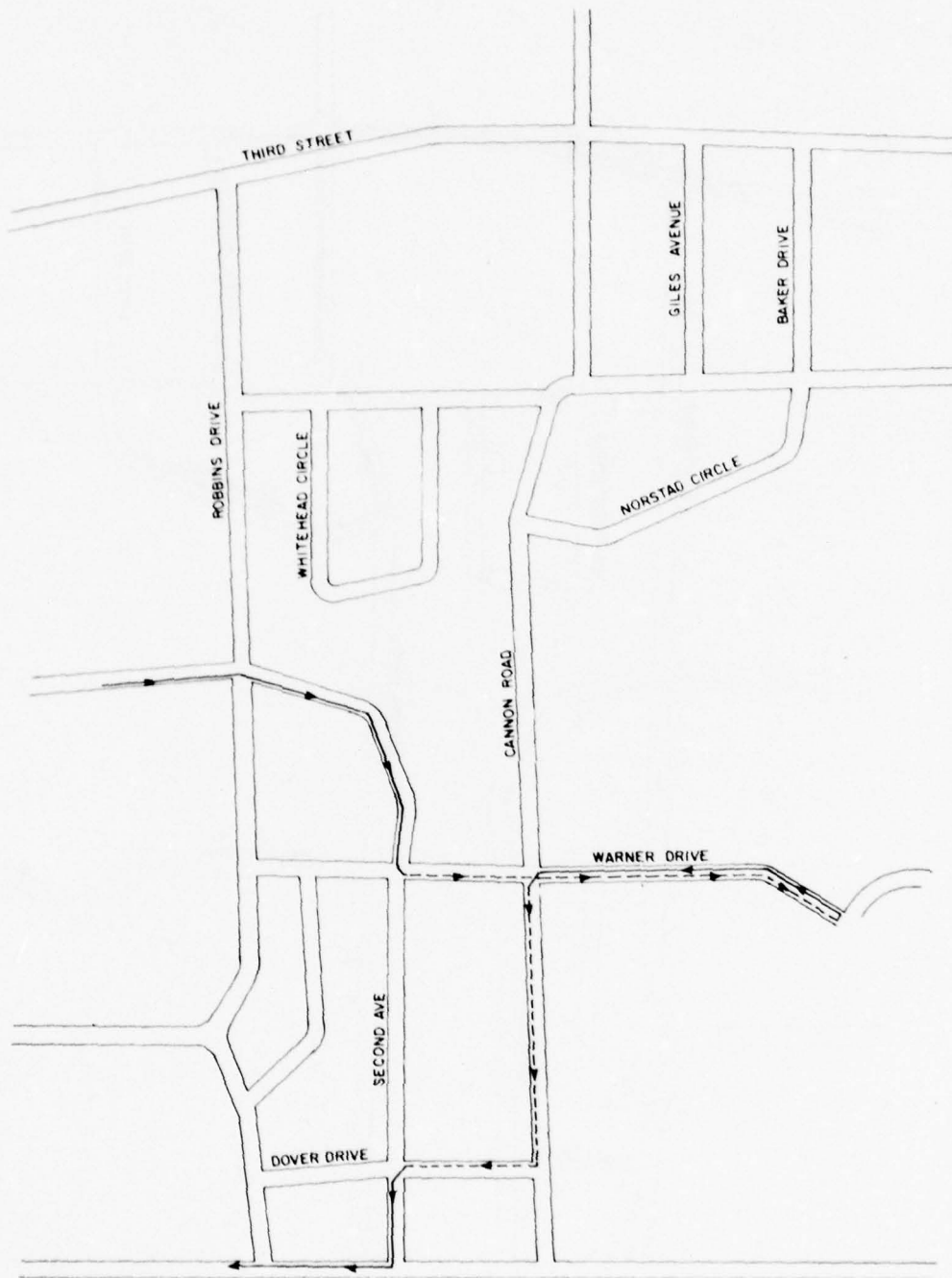
ROBINS AFB, GA.

ROUTE 1 TRIP 2  
14 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



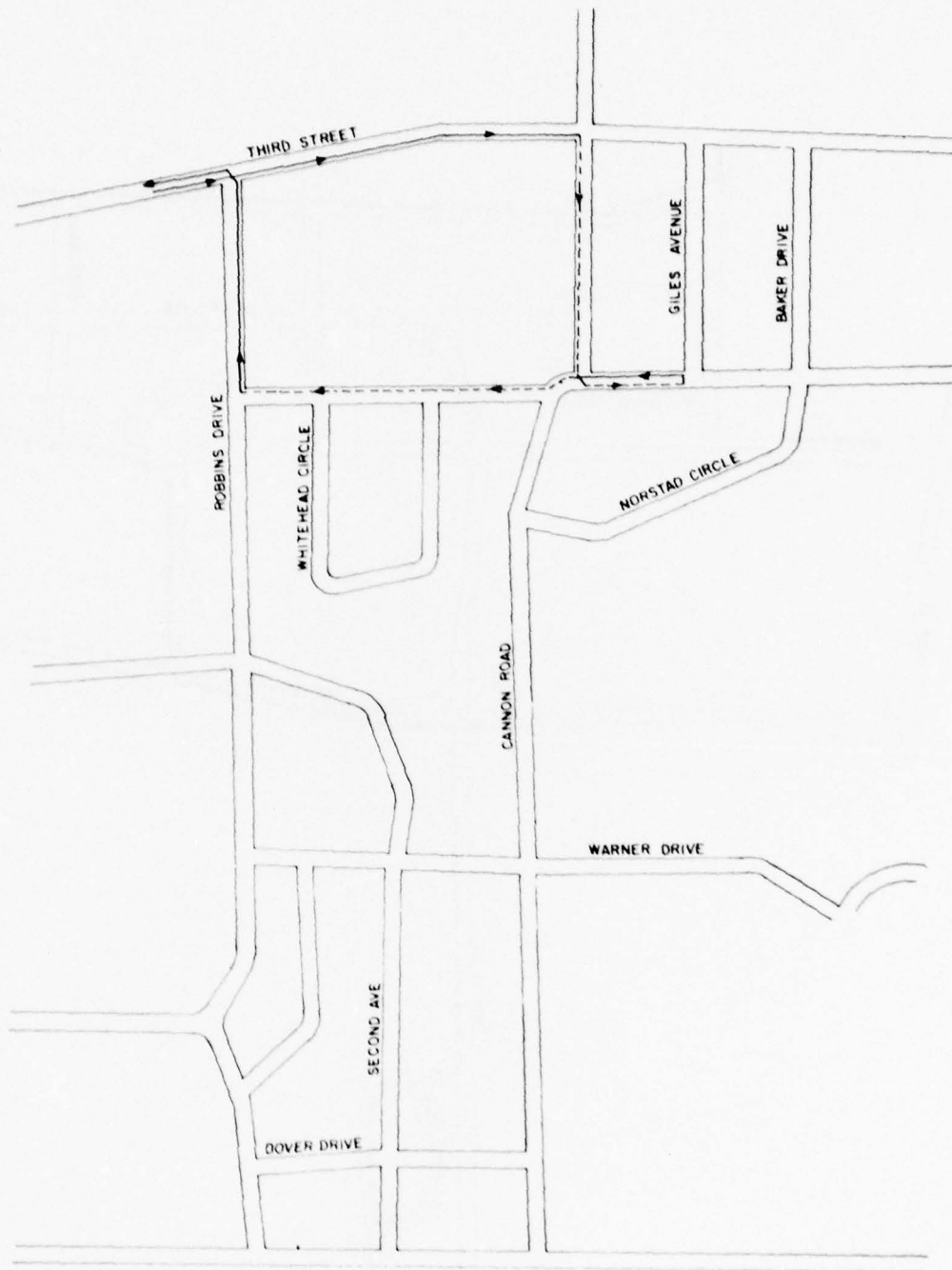
ROBINS AFB, GA.

ROUTE 2 TRIP 1  
14 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB, GA.

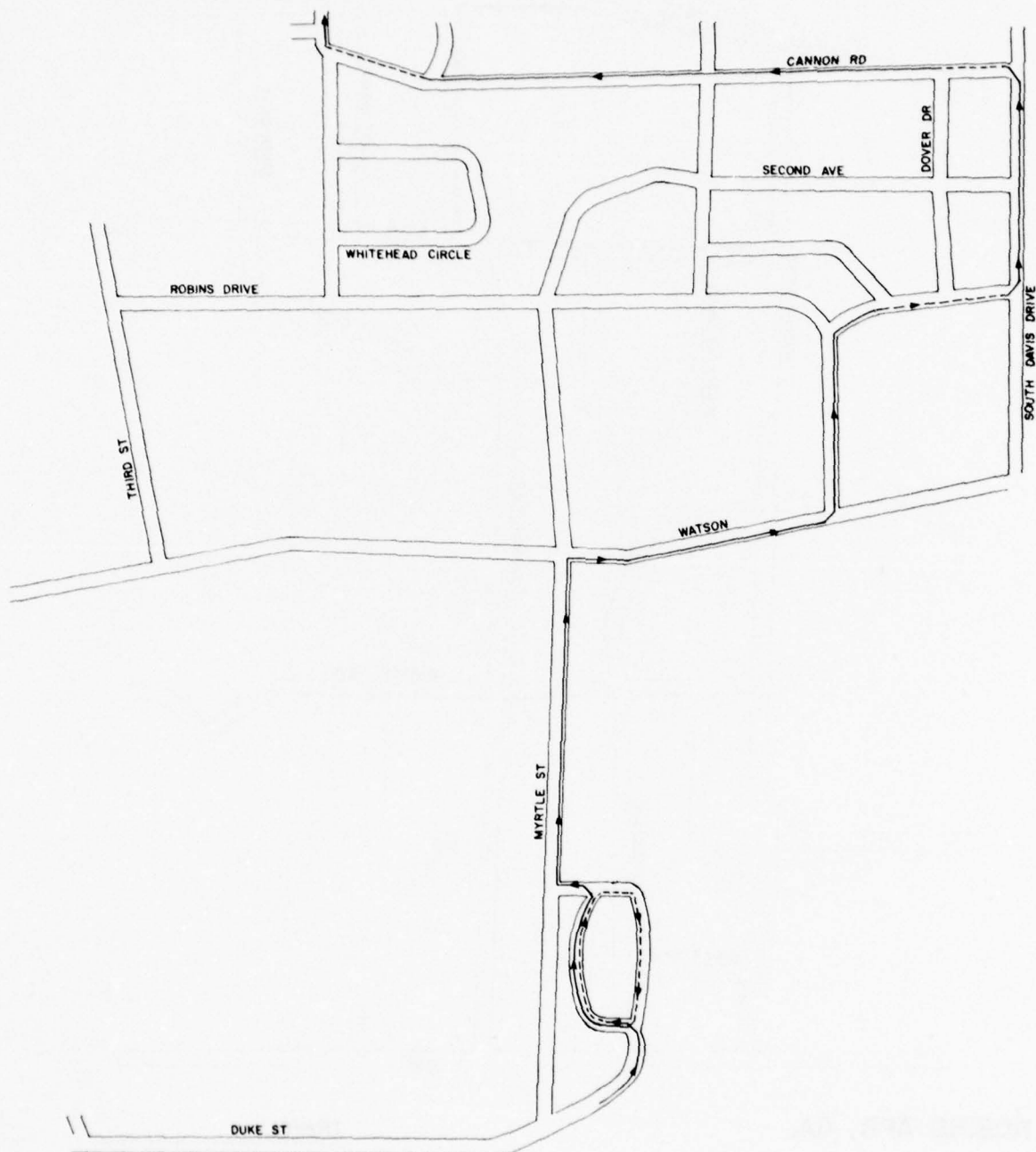
ROUTE 2 TRIP 2  
14 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE

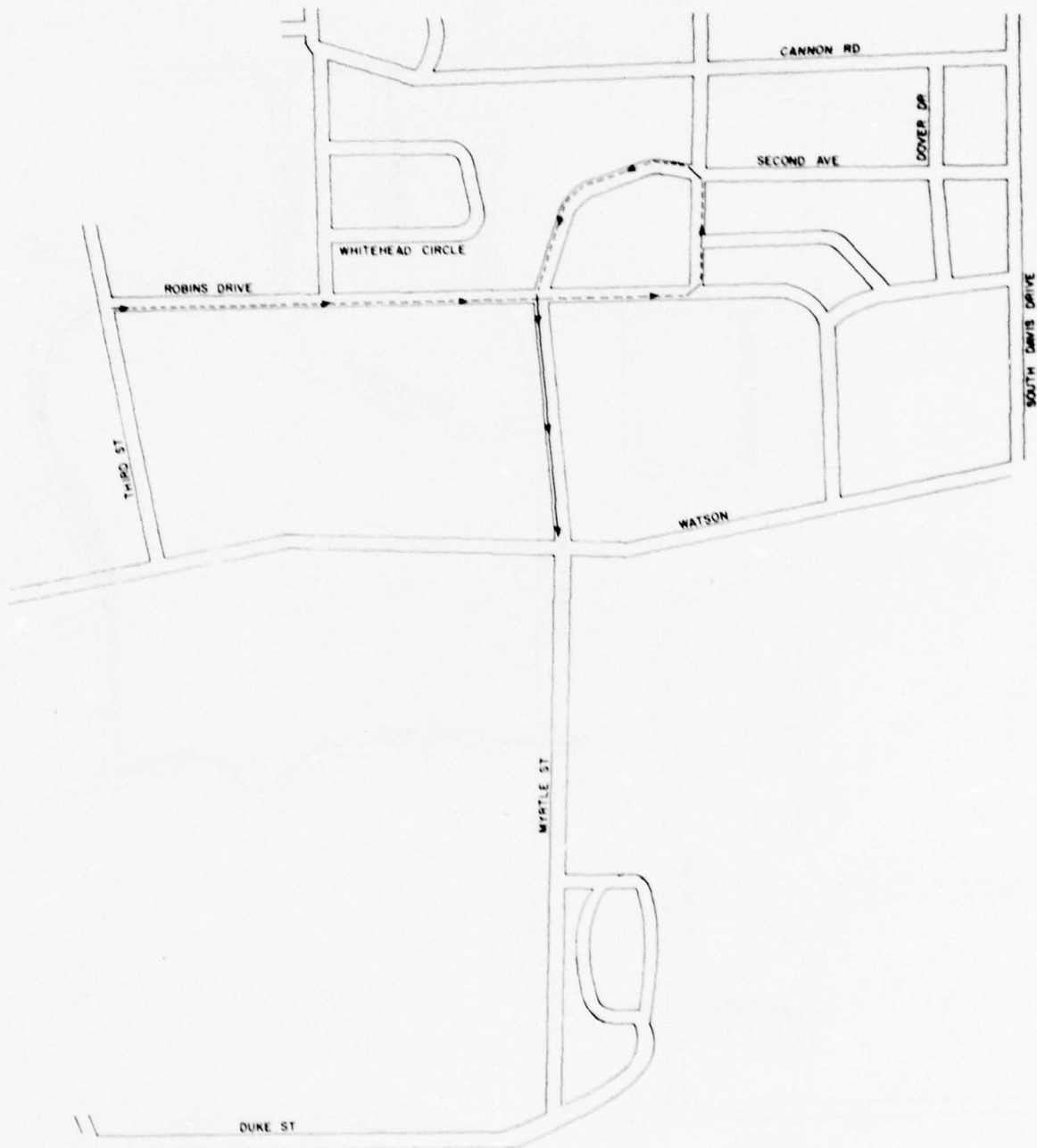




ROBINS AFB, GA.

ROUTE 3 TRIP 1  
14 CU YD VEHICLE

TRAVEL  
COLLECT BOTH SIDES  
COLLECT RIGHT SIDE



ROBINS AFB, GA.

ROUTE 3 TRIP 2  
14 CU YD VEHICLE

TRAVEL  
COLLECT BOTH SIDES  
COLLECT RIGHT SIDE





ROBINS AFB, GA.

ROUTE 4 TRIP 1  
14 CU YD VEHICLE

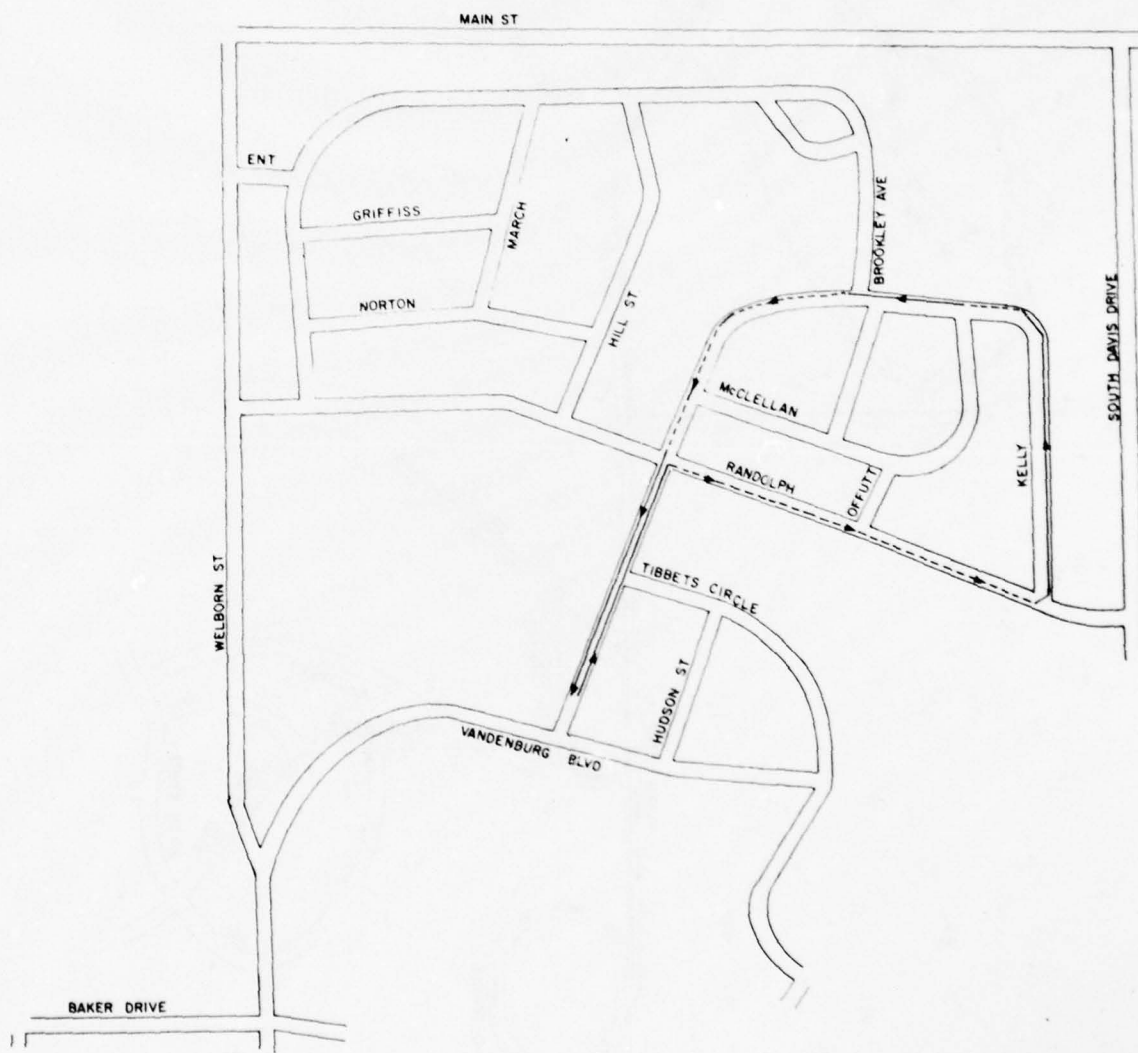
TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE







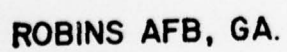
ROBINS AFB, GA.

ROUTE 5 TRIP 1  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE

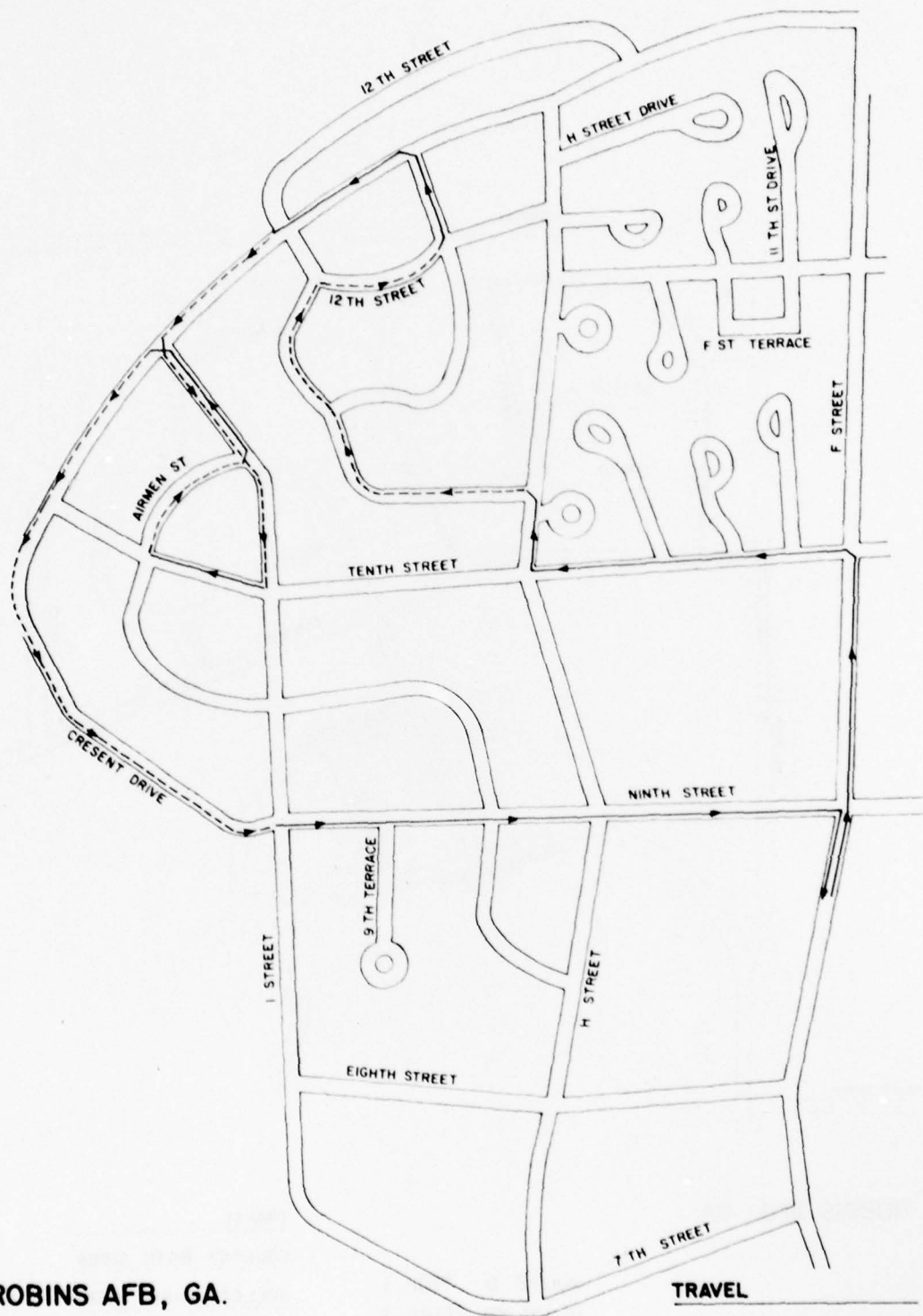


TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE





ROBINS AFB, GA.

ROUTE 6 TRIP 2  
16 CU YD VEHICLE

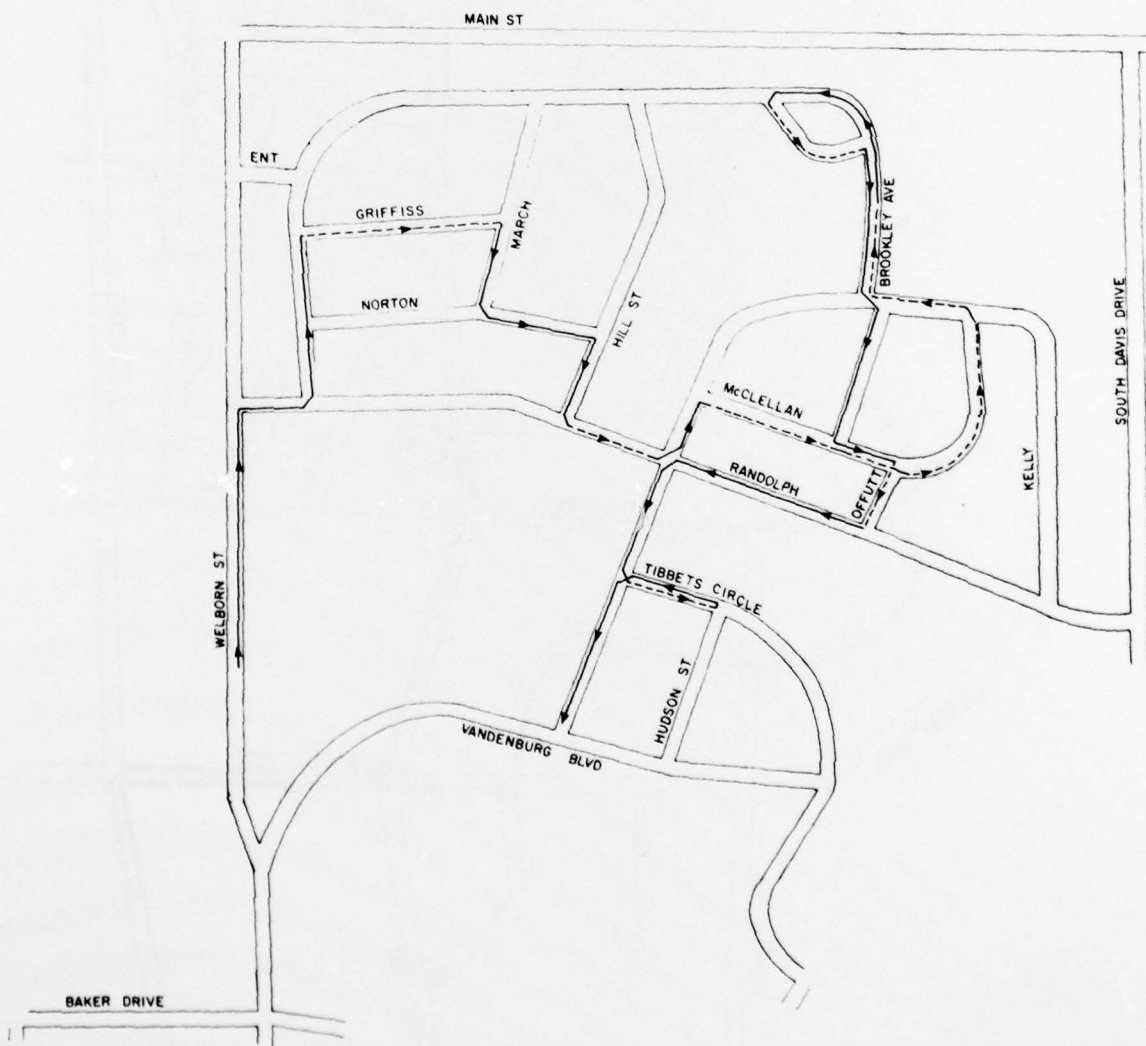
TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE







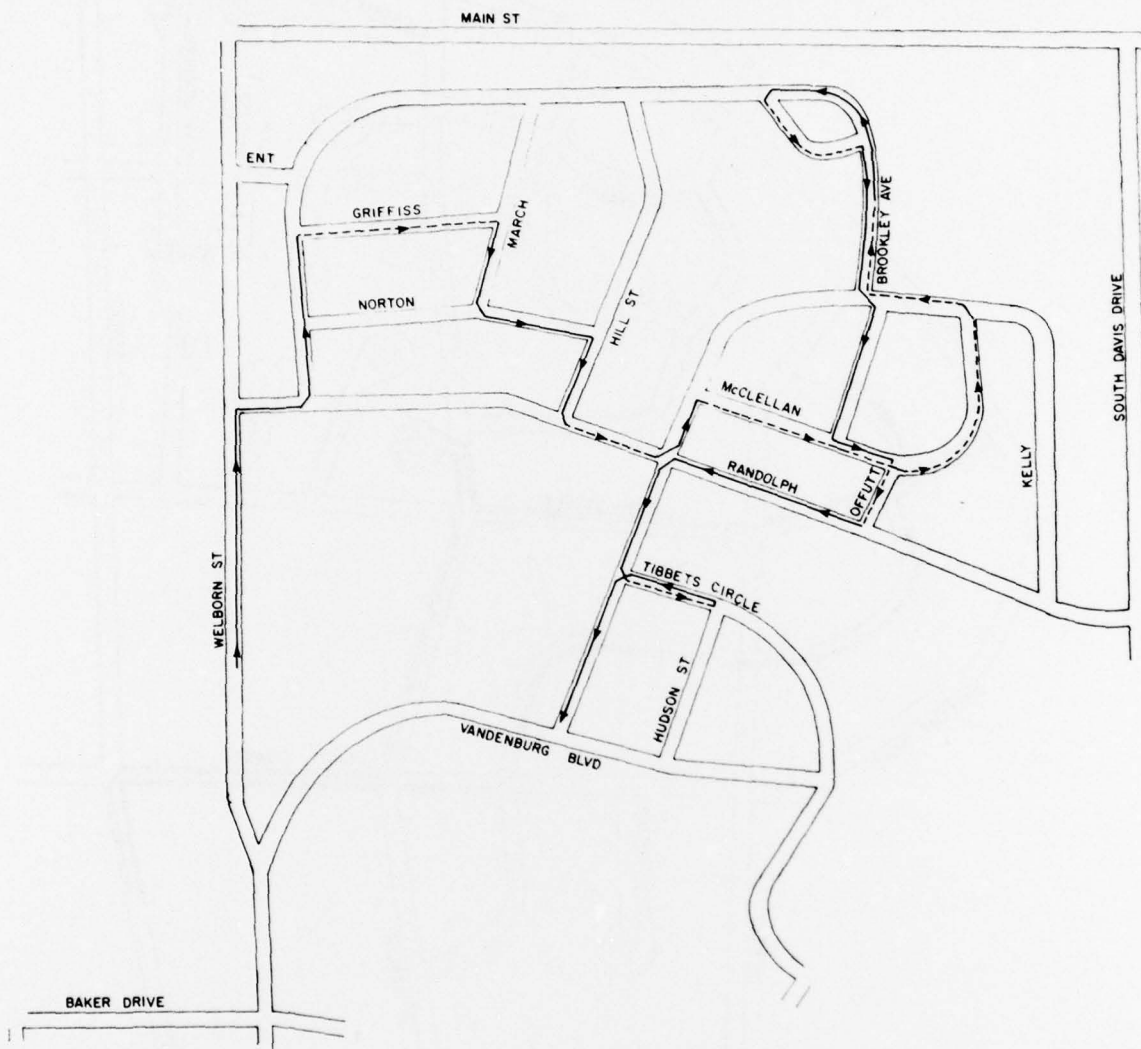
ROBINS AFB , GA.

ROUTE 7 TRIP 2

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



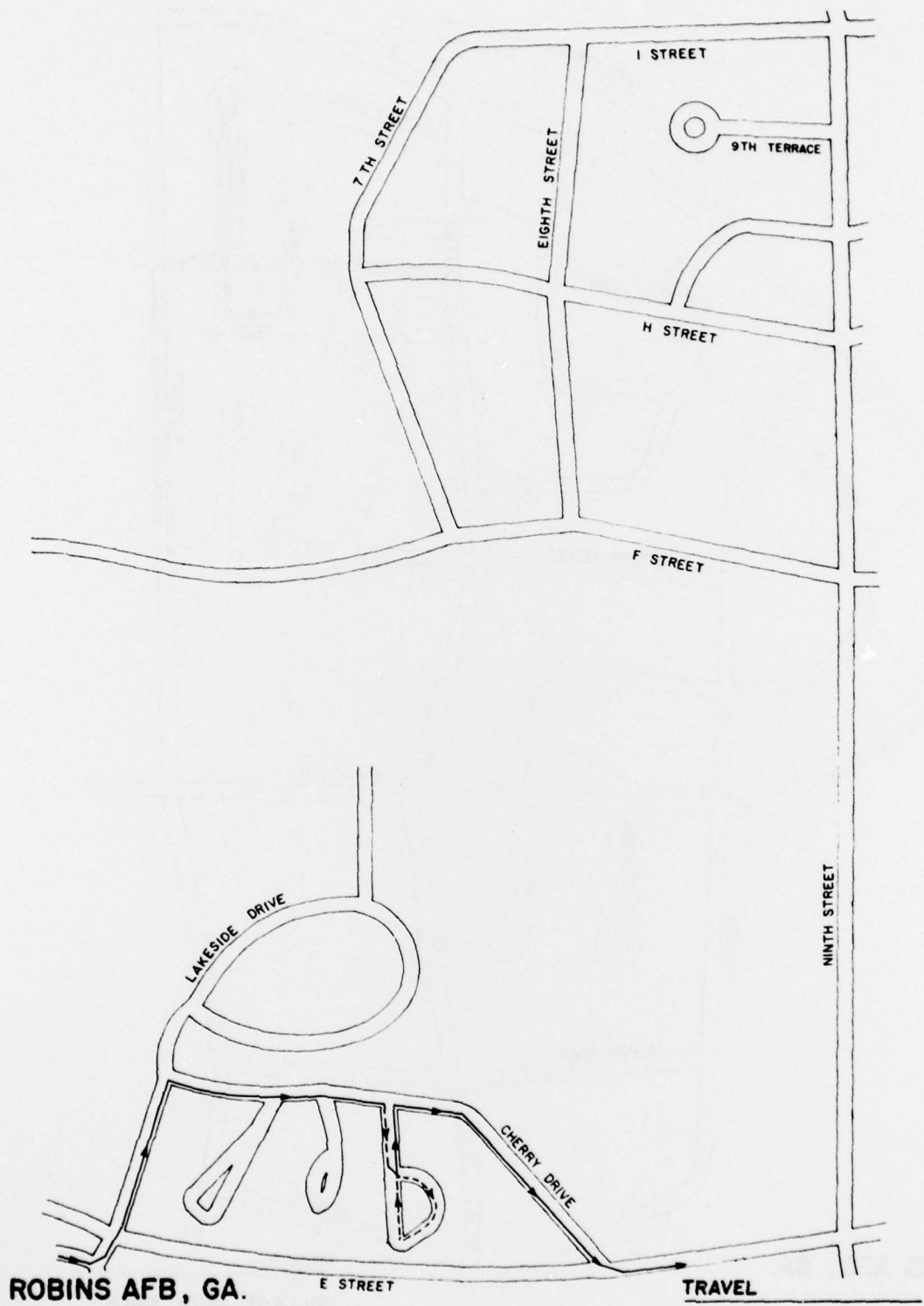
ROBINS AFB, GA.

ROUTE 7 TRIP 2  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROUTE 8 TRIP 1  
16 CU YD VEHICLE

COLLECT BOTH SIDES  
COLLECT RIGHT SIDE



## TRAVEL

**COLLECT RIGHT SIDE**

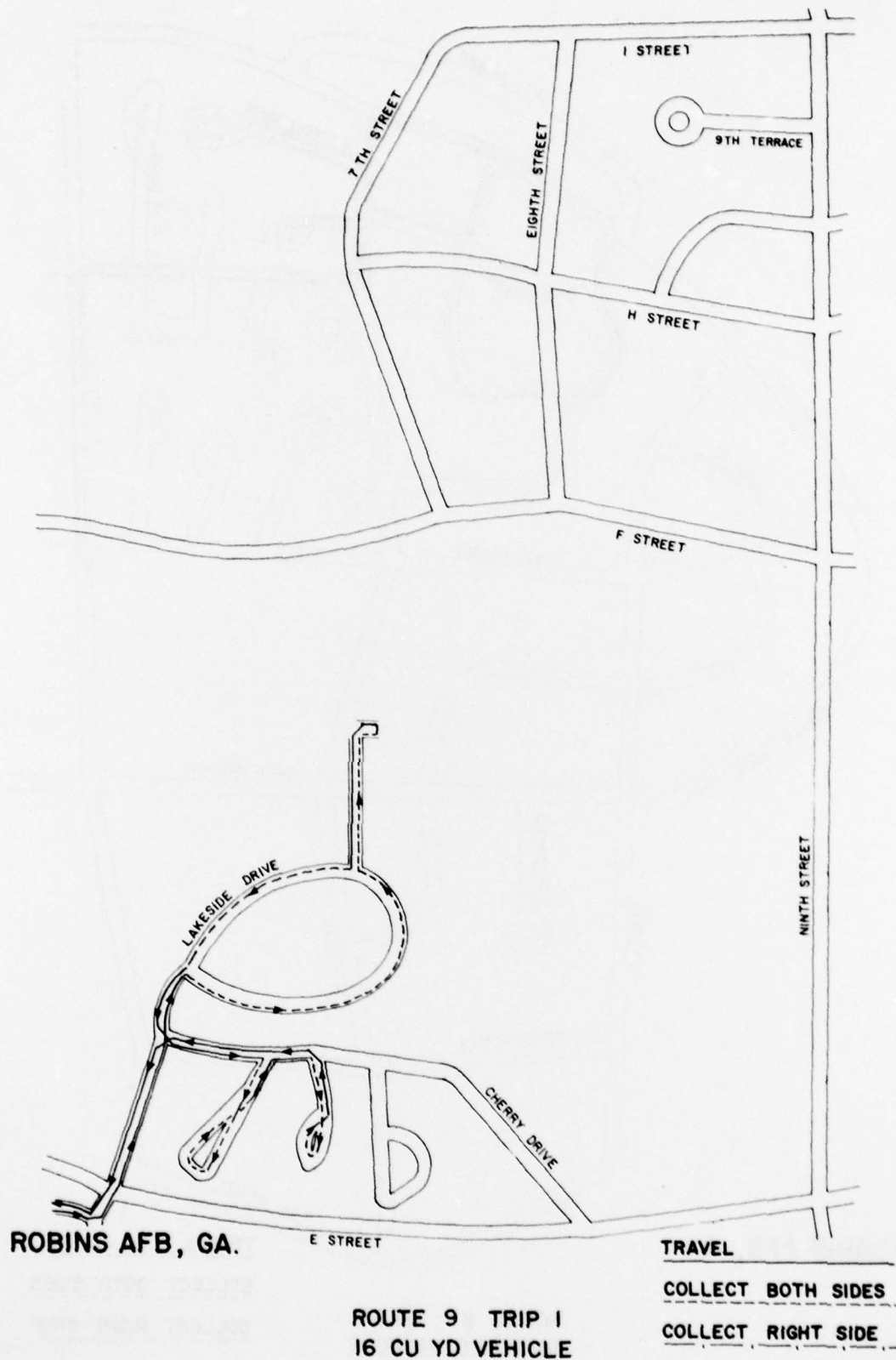


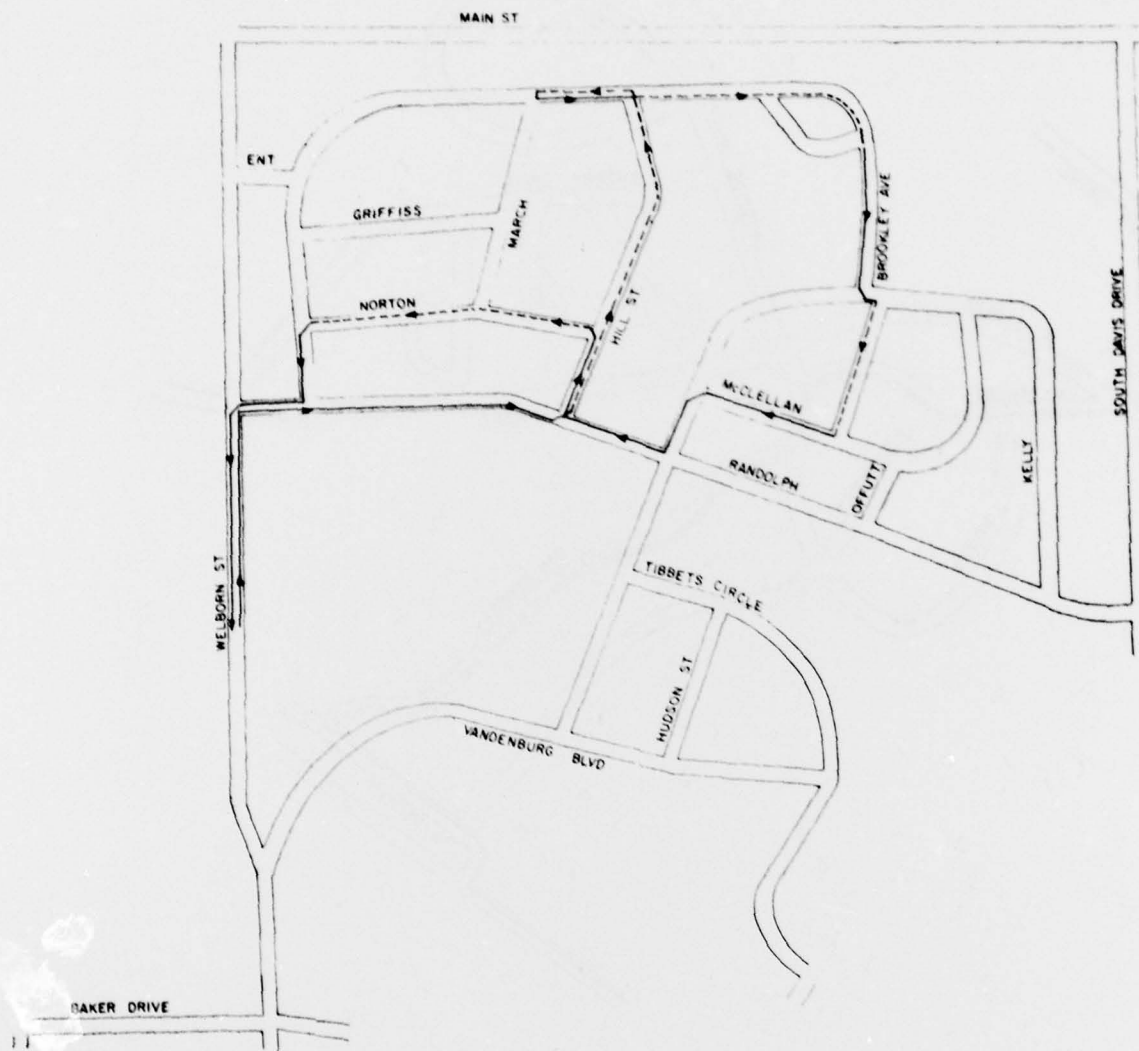


## TRAVEL

**COLLECT RIGHT SIDE**







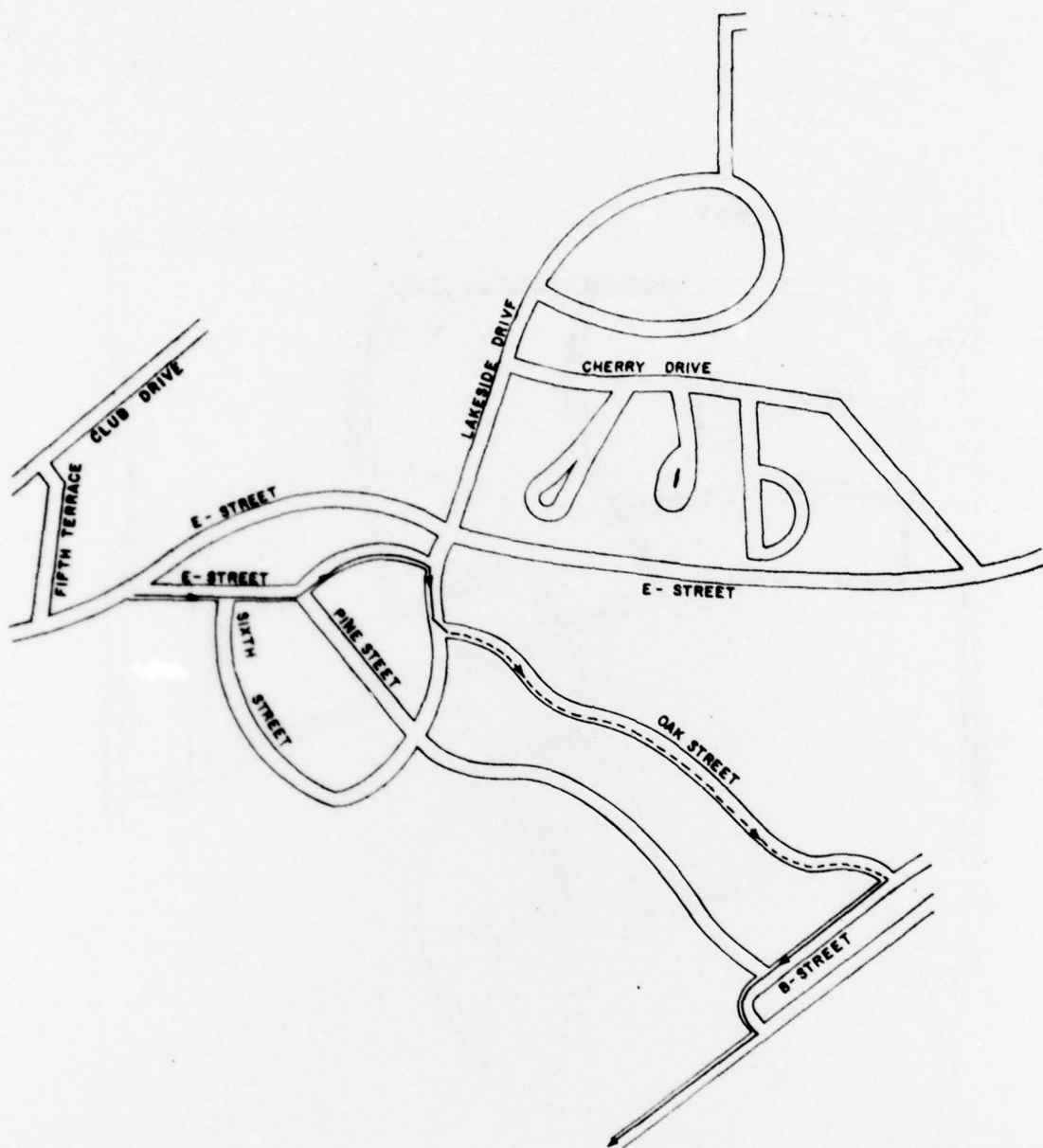
ROBINS AFB , GA.

ROUTE 9 TRIP 2  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB, GA.

ROUTE 10 TRIP 1  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



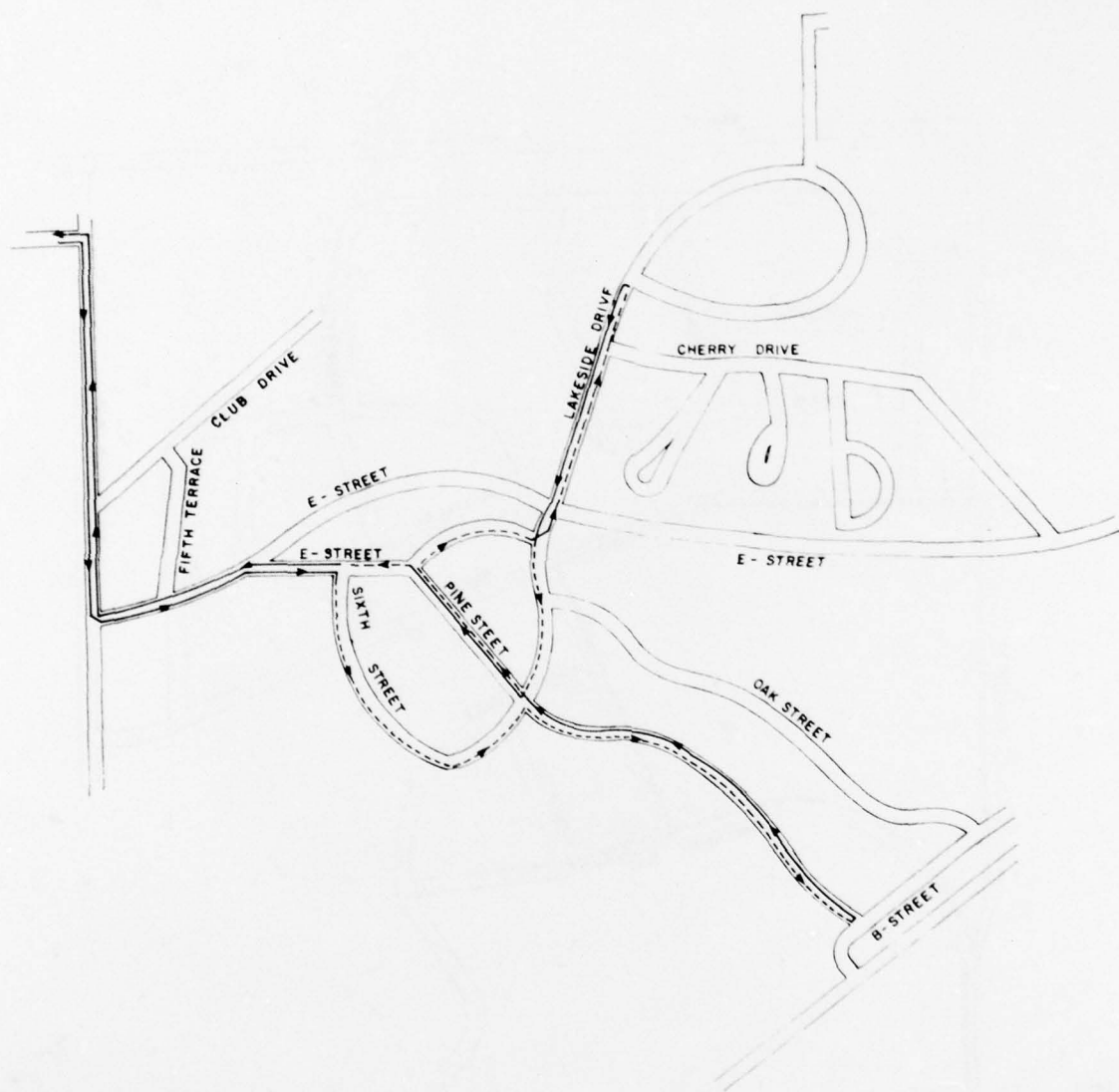
ROBINS AFB, GA.

ROUTE 10 TRIP 1  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



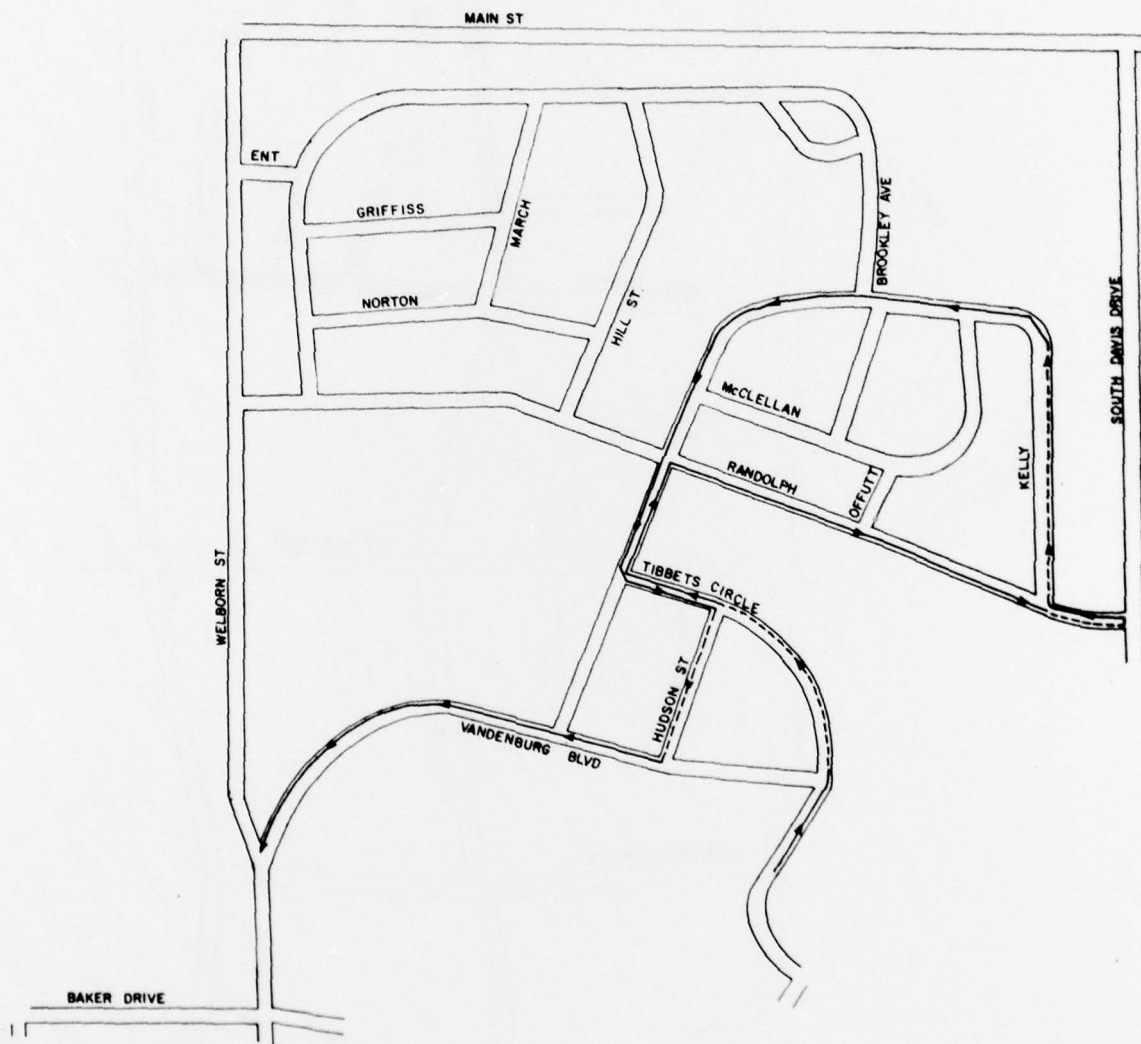
ROBINS AFB, GA.

ROUTE 10 TRIP 2  
16 CU YD VEHICLE

TRAVEL  
COLLECT BOTH SIDES  
COLLECT RIGHT SIDE



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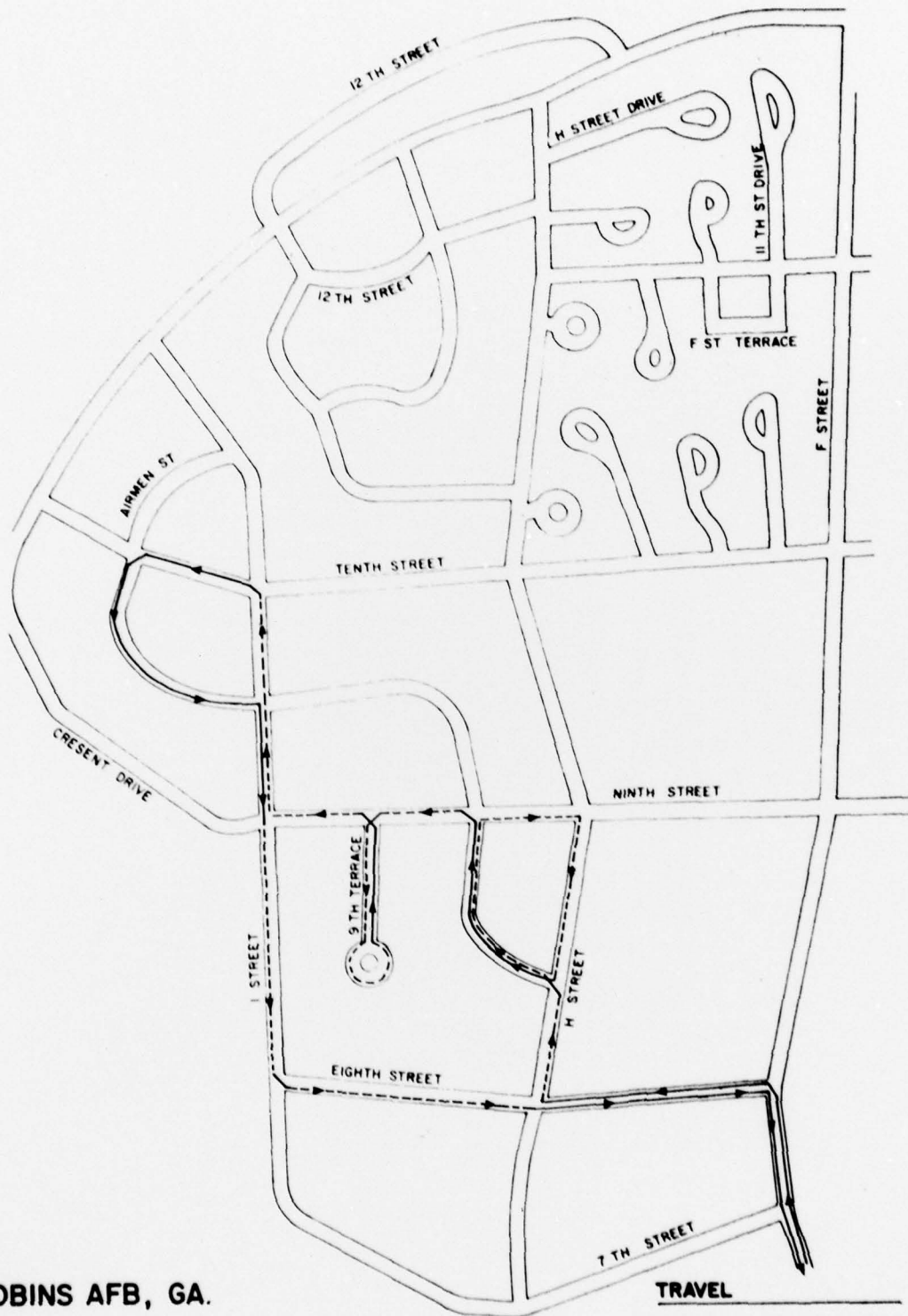
ROBINS AFB , GA.

ROUTE II TRIP 2  
16 CU YD VEHICLE

TRAVEL

COLLECT BOTH SIDES

COLLECT RIGHT SIDE



ROBINS AFB, GA.

ROUTE 12  
16 CU YD VEHICLE

TRAVEL  
COLLECT BOTH SIDES  
COLLECT RIGHT SIDE